



# TECHNICAL DATA INFORMATION





## ABOUT LUCAS OIL PRODUCTS

Lucas Oil Products was founded by Forrest Lucas and his wife Charlotte in 1989. Prior to that, Forrest was a truck driver for over 20 years. He and Charlotte were also the owners of a nationwide long haul trucking fleet. They experienced first-hand the need for better lubricants and fuel treatments to maintain their own equipment. Given their personal experience in the trucking industry, Forrest and Charlotte started Lucas Oil Products with the simple philosophy of producing only the best line of lubricants and additives available anywhere. Since its inception, Lucas has steadfastly adhered to this corporate objective. Through innovative product research and development, along with aggressive marketing programs, Lucas has established itself as the top selling additive line in the American truck stop industry.

**Forrest and Charlotte started Lucas Oil Products with the simple philosophy of producing only the best line of lubricants and additives available anywhere.**



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Lucas is also the number one additive line in the automotive aftermarket industry. A premium line of oils, greases and problem-solving additives, has helped to firmly establish Lucas as the leader in this marketplace.

Lucas also produces a heavy-duty line of products for the industrial and agricultural markets. President Forrest Lucas sums it up, "Our forte is to make better products for industries and

**Lucas is also the number one additive line in the automotive aftermarket industry.**

specialty situations that are not having their needs completely satisfied by other oil products and, believe me, the major oil companies have left a lot of weak spots. We have an excellent staff and a

world of technology which we have gained through years of research. Together we have done a great deal in a short period of time and we intend to do a lot more."

Lucas has long been directly involved in the American racing industry through multiple vehicle sponsorships and racing event promotions, at all levels. Seeing a need for better lubricants in this industry, the Lucas people went to work again. The end result being a line of high performance engine oils and gear oils that are second-to-none in the racing industry. Lucas racing products have proven themselves on NASCAR, NHRA, IHRA, USAR, NOPI, NARA, IHBA and ATPA tracks across the country.

**The end result being a line of high performance engine oils and gear oils that are second-to-none in the racing industry.**

The Lucas success story has been built upon hard work, an unparalleled line of premium products and an unwavering commitment to customer satisfaction. This single formula for success will continue to guide Lucas Oil Products as it grows in the years to come.



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**LUCAS OIL PRODUCTS, INC. 302 North Sheridan St. Corona, CA 92880**



## HEAVY DUTY OIL STABILIZER

PRODUCT # 10001, 10002, 10015, 10085, 10091, 10398, 20001, 20002



### TEST

### ASTM

### TYPICAL

<b>API Gravity</b>	<b>D-1298</b>	<b>26.5</b>
<b>Specific Gravity @ 60°F</b>	<b>D-1298</b>	<b>.8956</b>
<b>Density @ 60°F</b>	<b>D-1298</b>	<b>7.458</b>
<b>Viscosity @ 100°C cSt</b>	<b>D-445</b>	<b>110.0</b>
<b>Flash Point, COC °F</b>	<b>D-92</b>	<b>470</b>
<b>Color</b>		<b>Amber</b>

Lucas Heavy Duty Oil Stabilizer is a 100% petroleum product developed and perfected through thousands of hours of laboratory and field testing. The result is a product proven capable of servicing the lubricating needs of many industries. The oil itself is a specially formulated blend of premium oils plus a variety of petroleum-extracted additives blended together to make one product that will meet several needs at one time within an engine or gear box. In most automotive applications, Lucas Heavy Duty Oil Stabilizer is meant to be a supplement to other oils. The primary benefits of Lucas Heavy Duty Oil Stabilizer are as follows: For preventative maintenance, it virtually eliminates dry starts and wear. It extends oil life and lowers oil temperature in any engine, gasoline or diesel. It raises oil pressure, reduces smoking, leaking, knocking and blow-by in worn engines. It also helps to control noise, overheating, leaks and wear in gear boxes. Since Lucas Heavy Duty Oil Stabilizer is 100% petroleum, it can safely blend with all other automotive lubricants, even synthetic oils. The concentration of protective additives to the ratio of base oil is such that the maximum lubricity of Lucas Heavy Duty Oil Stabilizer is attained by using it at a ratio of 20% to 60% with other oils. At this point the entire oil mix becomes much slicker than oil alone. This reduction of friction allows any machine to do a given job with the use of less energy. This condition also creates a reduction in temperature which extends the life of the oils as well as the seals, bearings and other components. Lucas Heavy Duty Stabilizer protects against rust, corrosion and dry starts caused by long periods of non-use. Oil treated with Lucas Heavy Duty Oil Stabilizer will not run off cylinders and gears. This product is a must for motor homes, combines, construction equipment, boats, military equipment or anything that sits idle for long periods of time. Lucas Heavy Duty Oil Stabilizer can be used 80% to 100% to correct conditions in gear boxes that are badly worn, leaking, overheating or operating under extreme pressure. Lucas Heavy Duty Oil Stabilizer should be used 100% on open gears or when maximum climbing action is needed. It has been used 60% to 100% in many automotive operations where the engines were so worn that an overhaul was imminent. It can be used 100% when conditions are such that the shear pressure is so severe that other lubricants can't hold up. Lucas Heavy Duty Oil Stabilizer seals the cylinders to keep oil from going up to be burned. It also keeps the contaminants of the combustion chamber from coming down to prematurely ruin the oil. This blow-by is what accelerates wear in a worn engine. By controlling "blow-by" and "dry starts," the life of an already worn engine can be extended significantly. The use of Lucas Heavy Duty Oil Stabilizer allows the oil change interval to safely be extended by at least 50%. This fact alone pays for the product making all other benefits a bonus. Lucas Heavy Duty Stabilizer is a perfect assembly lube. It is used by many major engine rebuilders. It completely adheres to the parts to eliminate the long dry start that can be detrimental to newly rebuilt engines. The adverse effects of heat in an engine or gear box are well known to anyone with a fair degree of mechanical knowledge. Lucas Heavy Duty Oil Stabilizer is designed to retain its viscosity (resist thinning) at high temperatures. Ordinary oils often lose their viscosity and shear stability when temperatures rise beyond the point at which they were designed to operate. The addition of Lucas Heavy Duty Oil Stabilizer to the oil not only allows equipment to operate at higher temperatures, but it safeguards against engines and bearings being ruined from overheating. In engines use approximately 20% or one quart to each gallon of any plain motor oil, petroleum or synthetic. In badly worn engines, use more - up to 60 or 80% if necessary. In manual transmissions and transfer cases use 25 to 50%. In differentials use 25 to 50%. In badly worn or noisy differentials use 50 to 100%. In industrial gear boxes use 25 to 50% for preventative maintenance and less power drain. If necessary use 50 to 100% to stop leaks and overheating.

# PURE SYNTHETIC OIL STABILIZER

PRODUCT # 10130, 10131, 10132, 10133, 10134, 20130, 20131



TEST	ASTM	TYPICAL
API Gravity	D-1298	34.7
Specific Gravity @ 60°F	D-1298	.8514
Density @ 60°F LBS/US Gal	D-1298	7.090
Viscosity @ 100°C cSt	D-445	45
Flash Point, COC °F	D-92	425
Color		Clear

Lucas Pure Synthetic Oil Stabilizer is perfect for use in new equipment that requires synthetic oil or any equipment that needs enhanced performance. It can be used to protect new and used heavy duty and high performance transmissions, gear boxes and engines. This product controls heat and wear in motorcycles, air-cooled engines and all drive-train components. Lucas Pure Synthetic Oil Stabilizer reduces friction for more power and more MPG. It eliminates dry starts in new engines and provides the extra protection needed for import and domestic engines requiring newer, lighter engine oils. Lucas Pure Synthetic Oil Stabilizer was originally designed for the racing industry. Light, slick and long-lasting with a film strength that stands up to high temperatures and pressures in extreme situations and since it's pure synthetic, it won't void warranties! Lucas Pure Synthetic Oil Stabilizer controls noise, heat and wear in manual transmissions, differentials and transfer cases. It stabilizes oil pressure for better performance in today's electronically controlled gasoline and diesel engines. It eliminates hesitation, rough idle, stalling and loss of fuel mileage caused by low or fluctuating oil pressure. No special limited slip additive needed when used in differentials. In badly whining differentials use our original Heavy Duty Oil Stabilizer. Use Lucas Pure Synthetic Oil Stabilizer in cold weather applications for easier cranking and maximum protection from all wear problems associated with cold dry starts.

# ENGINE OIL STOP LEAK

PRODUCT # 10278, 10279, 10103, 20278, 20279



TEST	ASTM	TYPICAL
API Gravity	D-1298	21.1
Specific Gravity @ 60°F	D-1298	.9273
Density @ 60°F	D-1298	7.727
Viscosity @ 100°C cSt	D-445	48
Flash Point, COC °F	D-92	435
Color		Amber

Lucas Engine Oil Stop Leak is a unique formulation of Lucas additives and base stocks designed to stop leaks in engines. It is also an exceptional additive for worn and older engines, reducing engine noise and oil consumption while raising oil pressure. It contains no harmful solvents and can actually extend engine oil life by 50% or more. Leaking engines are usually older engines. Lucas Engine Oil Stop Leak is not only a leak stopper but also an excellent additive for worn engines. The user can expect less engine noise, higher oil pressure and less oil consumption as the Lucas additives fill the space between the worn parts. Lucas Engine Oil Stop Leak is also effective at stopping leaks in automatic transmissions, hydrostat transmissions or hydraulic systems. 10% is usually adequate; more can be used in badly worn units. In gasoline engines, a puff of white smoke out the tail pipe in the morning is a sure sign of worn valve seals allowing oil to seep past the valves into the combustion chamber when the engine is not running. This is a sign of a high mileage engine. Allow a few days for Lucas Engine Oil Stop Leak to correct this problem. To keep this problem corrected a quart (or liter) will probably have to be added with each oil change. Use 20% of system capacity (example: 1 quart of Lucas Engine Oil Stop Leak to 4 quarts of motor oil).



# HIGH MILEAGE OIL STABILIZER

PRODUCT # 10118

TEST	ASTM	TYPICAL
API Gravity	D-1298	26.5
Specific Gravity @ 60°F	D-1298	.8956
Density @ 60°F LBS/US Gal	D-1298	7.458
Viscosity @ 100°C cSt	D-445	110.0
Flash Point, COC °F	D-92	470
Color		Amber

Lucas High Mileage Oil Stabilizer is a 100% petroleum product - developed in the laboratory and tested in the field for maximum reliability. The product is a specially-blended formulation of premium base oils and petroleum extractives for use in a wide range of engine and gear box applications. Lucas High Mileage Oil Stabilizer is meant to be used as an additive to existing engine or transmission oils.

PRIMARY BENEFITS of Lucas High Mileage Oil Stabilizer include:

- Stabilization of Oil Pressure
- Elimination of Hesitation, Rough Idle and Stalling
- Increased Fuel Mileage through Stabilization of Oil Pressure
- Elimination of Sludge Deposits
- Stops Oil Consumption and Smoking
- Stops Engine Knock
- Dampens Engine Noise
- Eliminates Excessive Friction and Heat
- Eliminates Dry Starts
- Increases Oil Life
- For Use with All Oil Types

Maximum Lubricity is achieved with a mix ratio of 20% Lucas High Mileage Oil Stabilizer to 80% engine/transmission oil. This mixture is much slicker than oil alone, reducing friction and heat to allow optimum mechanical efficiency. Lucas High Mileage Oil Stabilizer creates a coating that clings to metallic surfaces, eliminating dry starts that create the most damage and wear in an older engine. This product is for use in ALL engine-driven vehicles, and HIGHLY RECOMMENDED for recreational vehicles, farm equipment, industrial equipment as well as construction and military vehicles and equipment.

For extremely worn GEAR BOX applications, product ratios from 80 to 100% can be effective in eliminating leaks, overheating and noise - especially for machines that experience extreme conditions and pressures. Badly worn ENGINES can benefit from a product ratio of 60 to 100% to delay or eliminate complete overhaul. Lucas High Mileage Oil Stabilizer helps to control blow-by, dry-starts and oil-burning -maximizing efficiency, reducing harmful emissions and extending oil life.

Lucas High Mileage Oil Stabilizer can also be used as an IDEAL ASSEMBLY LUBE. It's ability to cling to metal engine parts makes it perfect for new engines, as it reduces the friction and heat of new, tightly-fitting components.

Lucas High Mileage Oil Stabilizer retains its viscosity and shear stability at high temperatures, allowing engines to operate at higher temperatures and more extreme conditions without the danger of bearing or component failure.

For MOST ENGINES, use ONE QUART of Lucas High Mileage Oil Stabilizer per gallon of engine oil.

For WORN ENGINES, use a ratio from 60 to 80% of Lucas High Mileage Oil Stabilizer, if necessary.

For MANUAL TRANSMISSIONS and TRANSFER CASES, use a ratio of 25 to 50% of Lucas High Mileage Oil Stabilizer.

For DIFFERENTIALS, use 25 to 50% of Lucas High Mileage Oil Stabilizer.

For BADLY WORN DIFFERENTIALS, use 50 to 100% of Lucas High Mileage Oil Stabilizer.

For INDUSTRIAL GEAR BOXES use 25 to 50% for preventative maintenance and 50 to 100% to eliminate leaks and overheating.



**SYNTHETIC FORMULA**

**NEW!**

# LOW VISCOSITY STABILIZER

PRODUCT # 11097, 31097, 41097

TEST	ASTM	TYPICAL
API Gravity	D-1298	27
Specific Gravity @ 60°F	D-1298	0.888
Density @ 60°F Lbs/US Gal	D-1298	7.40
Flash Point, PMCC °F	D-93	>400
Viscosity @ 40°C cSt	D-445	162
Viscosity @ 100°C cSt	D-445	19.7
Viscosity Index	D-2270	140
Color	D-1500	6.0
Visual Description		Clear Dark Amber medium viscosity fluid

Lucas Low Viscosity Stabilizer is a premium, synthetic engine oil treatment that improves performance in four key areas: 1) Anti-Wear, for the life of your engine, 2) Friction Reduction, for fuel economy and power, 3) Dispersancy, to reduce sludge, varnish and carbon to keep your engine clean, 4) Oxidation Inhibition, to prolong the useful life of your oil. These are key performance characteristics that improve any oil – petroleum based or synthetic. They are especially important in today’s engines that are smaller, yet more powerful than the engines of yesterday, stressing vital engine components and the oil that protects them. The trend in motor oil viscosity is clear: lower and lower. SAE 10W-40 was the common viscosity in the memory of many car enthusiasts. Today, SAE 5W-20 or even 0W-20 is more like it and no new car specifies SAE 10W-40 PCMO. What’s more, Japanese car makers are now producing vehicles using SAE 0W-16 in their engines. What explains this trend? Two drivers: fuel efficiency and power. Tighter tolerances and advances in engineering enable this viscosity reduction. Today more than ever, your engine needs Lucas Stabilizer. Low Viscosity Stabilizer is made for today’s engines. When used as recommended, Low Viscosity Stabilizer will not change your oil’s viscosity grade, neither will it exceed API’s limits on phosphorus. What it will do is improve your engine oil to the benefit of your vehicle. Recommended especially for cars with variable valve timing and cylinder deactivation. Lucas Low Viscosity Stabilizer, the Engine Oil Stabilizer for modern cars from the name you trust.



**NEW!**

# ENGINE OIL STOP LEAK

(HIGH MILEAGE TOP OFF ADDITIVE)

PRODUCT # 11100

TEST	ASTM	TYPICAL
API Gravity	D-1298	31.8
Specific Gravity @ 60°F	D-1298	0.866
Density @ 60°F Lbs/US Gal	D-1298	7.22
Flash Point, PMCC °F	D-93	>400
Viscosity @ 40°C cSt	D-445	63
Viscosity @ 100°C cSt	D-445	10.7
Viscosity Index	D-2270	160
Color	D-1500	2
Visual Description		Clear Amber Fluid

Lucas Engine Oil Stop Leak (high mileage top off additive) is a premium lubricant formulated to meet SAE 5W-30 API SN motor oil standard\*, blended from both API Group II base oil (petroleum or conventional), as well as API Group III base oil (synthetic), with an added feature – a high quality seal swell agent. Certain “High Mileage” motor oils have this feature, but what distinguishes Lucas’ product is that it has sufficient seal swell additive to treat all the oil in a typical engine’s crankcase. Many older, high mileage cars still perform well, but may develop an annoying oil leak. More a nuisance than a serious mechanical problem, the leak can be hard to find and if found, difficult to repair due to the complexity of modern engines and their O-rings, seals and gaskets. These leaks not only require the occasional extra quart of oil, but stain driveways and add to pollution on city streets. Most of these leaks can be stopped with the use of Lucas Engine Oil Stop Leak which conditions, swells and softens seals, gaskets and O-rings. The use of this product will not dilute the additives in your motor oil. Engine Oil Stop Leak contains detergents, dispersants and anti-wear additives, like any high-quality motor oil.

\*Note, though formulated to the standard, this product is not licensed with API.



## COMPLETE ENGINE TREATMENT

PRODUCT # 10016, 20016

TEST	ASTM	TYPICAL
API Gravity	D-1298	37.5
Specific Gravity @ 60°F	D-1298	0.820
Density @ 60°F, Lbs/US Gal	D-1298	6.97
Flash Point, PMCC, °F	D-93	160
Viscosity @ 40°C cSt	D-445	9
Color	D-1500	1.5L
Visual Description		Clear light amber Low viscosity fluid

Lucas Complete Engine Treatment is a unique formulation that cleans and lubricates multiple systems in your vehicle. When added to fuel, it cleans and lubricates all components from the fuel tank to the cylinders. It removes deposits, protects against corrosion and helps the fuel to burn more completely, which helps to lower emissions, improves fuel mileage and increases power. When added to your oil, Lucas Complete Engine Treatment cleans your engine and forms a protective barrier against heat and friction, improves oil flow in cold weather and extends oil life. Not recommended for use in E85 fuel. Recommended for Flex Fuel Vehicle engine oil, whether operating on E85 or standard pump gasoline (E10). FOR ALL ENGINES AND OIL TYPES.

## FUEL TREATMENT UPPER CYLINDER LUBRICANT WITH INJECTOR CLEANERS

PRODUCT # 10003, 10013, 10020, 10023, 10024, 10080,  
10086, 10090, 10674, 10923, 20003, 20013, 20020



TEST	ASTM	TYPICAL
API Gravity	D-1298	26.4
Specific Gravity @ 60°F	D-1298	.8961
Density @ 60°F	D-1298	7.462
Viscosity @ 100°C cSt	D-445	13.0
Flash Point, COC °F	D-92	450
Color		Clear Yellow

Lucas Fuel Treatment is for gasoline and diesel fuel. It does not contain alcohol, solvents, kerosene, diesel fuel or anything else that would be useless or harmful to engines. Low sulphur diesel fuel and reformulated gasolines have had the polymers removed from them, not because the polymers were harmful but because they were attached to the aromatics (fumes) in the fuels. In their zest to rid our air of gasoline and diesel fumes, our government has stripped our fuel of its main lubricants and, in the process, a great deal of its power. It replaces those polymers with a concentrate that makes the fuel slicker and more powerful than it was originally. In fact, the user usually picks up more than enough fuel mileage to pay for the fuel treatment itself. Lucas Fuel Treatment lubricates rings and cylinder walls for longer life. It causes more combustion for more power and higher fuel mileage with FEWER EMISSIONS. Lucas Fuel Treatment cleans and lubricates valves, pumps, carburetors, injectors and compression rings. It is an absolute must for rotary pumps! It safely replaces the need for lead in older engines. Lucas Fuel Treatment is an excellent diesel tune up! Before going to the shop with an engine that is smoking or low on power, we suggest that you try adding about a half gallon of our treatment to each 100 gallons of fuel. This is often all it needs! 5.25 oz/155 mL treats one tank or up to 25 gallons of gasoline or diesel. 32 oz (1 quart)/946 mL treats 100 gallons gasoline or diesel. 128 oz (1 gallon)/3785 mL treats 400 gallons gasoline or diesel.



## **DEEP CLEAN™ FUEL SYSTEM CLEANER**

PRODUCT # 10512, 20512

### **TEST**

### **ASTM**

### **TYPICAL**

<b>API Gravity</b>	<b>D-1298</b>	<b>31.9</b>
<b>Specific Gravity @ 60°F</b>	<b>D-1298</b>	<b>0.866</b>
<b>Density @ 60°F LBS/US Gal</b>	<b>D-1298</b>	<b>7.21</b>
<b>Viscosity @ 100°C cSt</b>	<b>D-445</b>	<b>3.8</b>
<b>Flash Point, PMCC °F</b>	<b>D-93</b>	<b>155</b>
<b>Color</b>		<b>Light Straw</b>

Lucas Deep Clean™ Fuel System Cleaner is designed to clean the entire intake system and combustion chamber including injectors, piston tops, intake ports, cylinder heads and intake valves. This product contains special Lucas additives to improve fuel economy, reduce NOx emissions, increase power, acceleration and reduce octane requirement increase allowing the consumer to use lower octane fuel. It effectively removes carbon deposits and eliminates knocking and pinging. Lucas Deep Clean™ Fuel System Cleaner effectively lubricates fuel pumps and rings for longer cylinder life. The active chemistry in this product has been fleet and OEM tested with excellent results. It brings sluggish engines back to life. This product is low odor, alcohol free and is oxygen sensor safe. For best results, one 16 ounce bottle treats up to 30 gallons. It is recommended using Deep Clean Fuel System Cleaner every 3,000 to 4,000 miles.



## **DEEP CLEAN™ CONCENTRATE FUEL SYSTEM CLEANER 5.25 oz**

PRODUCT # 10669, 20669

### **TEST**

### **ASTM**

### **TYPICAL**

<b>API Gravity</b>	<b>D-1298</b>	<b>28.4</b>
<b>Specific Gravity @ 60°F</b>	<b>D-1298</b>	<b>0.885</b>
<b>Density @ 60°F LBS/US Gal</b>	<b>D-1298</b>	<b>7.37</b>
<b>Viscosity @ 100°C cSt</b>	<b>D-445</b>	<b>5.8</b>
<b>Flash Point, PMCC °F</b>	<b>D-93</b>	<b>155</b>
<b>Color</b>		<b>Light Yellow</b>

Lucas Deep Clean™ Concentrate Fuel System Cleaner provides the same benefits as our standard Deep Clean™ but in a smaller, more convenient package. Lucas Deep Clean™ is designed to clean the entire intake system and combustion chamber including injectors, piston tops, intake ports, cylinder heads and intake valves. This product contains special Lucas additives to improve fuel economy, reduce NOx emissions, increase power, acceleration and reduce octane requirement increase allowing the consumer to use lower octane fuel. It effectively removes carbon deposits and eliminates knocking and pinging. Lucas Deep Clean™ Fuel System Cleaner effectively lubricates fuel pumps and rings for longer cylinder life. The active chemistry in this product has been fleet and OEM tested with excellent results. It brings sluggish engines back to life. This product is low odor, alcohol free and is oxygen sensor safe. For best results, one 5.25 ounce bottle treats up to 15 gallons. It is recommended using Deep Clean Fuel System Cleaner every 3,000 to 4,000 miles.



## **DEEP CLEAN™ GDI**

**PRODUCT # 11096**

**SINGLE USE 11 OZ AEROSOL CAN**

Dirty engines have always been a problem, whether it's fuel system deposits, grime in the intake manifold, intake valve deposits (IVD), or carbon build-up in the combustion chamber. Dirty engines just don't run as well as clean engines. Why is it that there seems to be so much more talk about it today? The answer to that question is complicated and doesn't rest on a single cause, but one major change has been the method of fuel delivery. In the "old days" cars had carburetors. Fuel was blended with air in the carburetor and traveled together the length of the intake manifold into the engine through the intake valves. In the 1980's carburetors were largely replaced with port fuel injection systems where gasoline was sprayed sequentially into each cylinder by injectors mounted in the intake manifold with the fuel spray aimed at the back side of each intake valve. In recent years a new method of fuel delivery is replacing port fuel injection. It is known by various names, but probably most commonly by Gasoline Direct Injection, or GDI for short. In this system the injector has moved from the intake manifold to the cylinder head. These are much higher-pressure systems with shorter injection intervals and more sophisticated computer control, but the thing most noteworthy is that the intake valves are no longer receiving the fuel spray; the fuel is being directly injected into the combustion chamber. This change has resulted in better fuel economy and more power, but there have been problems too. Probably the biggest problem is that the deposits that form on the intake valves are no longer being sprayed by fuel, so not only do they tend to accumulate more rapidly and harden, but fuel detergents can no longer effectively reduce that accumulation. That's true no matter where those detergents come from, whether in pump gasoline (e.g. Top Tier Gasoline) or by adding a retail fuel treatment to the fuel tank. The valves simply are no longer exposed to the fuel spray. Many owners of vehicles equipped with GDI have experienced engine hesitation, loss of power, increased emissions and even engine codes indicating misfires due to improperly sealing intake valves, a direct result of deposit accumulation. These symptoms can appear within the first 10,000 miles. To address this problem, Lucas has developed Deep Clean GDI, an aerosol product that the average consumer can use to help clean the entire air intake system as well as the combustion chamber and turbo (if so equipped), including: the intake manifold, runners and ports and of course intake valves. Extensive testing has found that a single application can remove substantial amounts of IVD resulting in a better running engine with more power and improved fuel economy. Deep Clean GDI is also effective in vehicles equipped with conventional port fuel injection. How does Deep Clean GDI do it? It is a blend of effective solvents and fuel detergents that gets to places where tank additives can't reach. It is an easily applied product requiring a minimum of disassembly, easily accomplished by the average do-it-yourselfer. Note that Deep Clean GDI is not a throttle body cleaner. For the best one-two punch against dirty engines, Lucas recommends that our customers also treat their fuel with Deep Clean Fuel System Cleaner as a companion product, so that fuel injectors and the entire fuel system are also protected. Use both products every 10,000 miles to maintain top performance.

 **WARNING:** This product can expose you to chemicals including ethylbenzene, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# SAFEGUARD™ ETHANOL FUEL CONDITIONER

PRODUCT # 10576, 10670, 10929, 20576, 20670



TEST	ASTM	TYPICAL
API Gravity	D-1298	41.0
Specific Gravity @ 60°F	D-1298	0.820
Density @ 60°F LBS/US Gal	D-1298	6.84
Flash Point, PMCC, °F	D-93	156
Viscosity @ 40°C cSt	D-445	2.3
Color		Green

Lucas Safeguard™ Ethanol Fuel Conditioner and Stabilizer was developed to specifically address issues associated with using ethanol based fuels. This applies to E-10, E-15, E-85, pure ethanol and any mixtures in between, including gasoline. Our product is completely soluble in all ethanol fuels and will not harm filters. Our product contains effective additives to prevent rust and corrosion associated with the use of ethanol fuels. Safeguard™ cleans injectors, valve seats, combustion chambers and other critical fuel components. It contains effective oxidation inhibitors to stabilize fuel and prevent varnish and gum formation in ethanol and gasoline. It works to combat deposits and protects your engine oil lubricants from the harmful effects of alcohol combustion. One ounce of Safeguard™ treats five gallons of ethanol fuel. Recommended for use in automobiles and marine applications. NOT RECOMMENDED FOR DIESEL APPLICATIONS.

**WARNING:** This product can expose you to ethylbenzene, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# DIESEL DEEP CLEAN PARTICULATE FILTER CLEANER & POWER BOOSTER

PRODUCT # 10872, 10873, 20872, 20873



TEST	ASTM	TYPICAL
API Gravity	D-1298	28.4
Specific Gravity @ 60°F	D-1298	.885
Density @ 60°F LBS/US Gal	D-1298	7.37
Viscosity @ 100°C cSt	D-445	5.8
Flash Point, PMCC °F	D-93	155
Color		Light Yellow

Lucas Diesel Deep Clean™ is new technology designed to reduce particulate matter in diesel particulate filters (DPF), which helps extend the life of the equipment. Particulate matter is a major contributor to the degradation of DPF systems. This product cleans fuel injectors, restores power loss and improves acceleration. Also it restores engine performance, improves fuel economy and reduces NOx emissions. One 16 oz (473 mL) bottle treats up to 30 gallons (113.5 L) of diesel fuel. One ½ gallon (1.89 L) bottle treats 120 gallons (454 L) of diesel fuel. Diesel Deep Clean is designed for use in automotive and heavy duty diesel engines. It brings sluggish engines back to life. This product can be used at every oil change or at every fill-up.

# ANTI-GEL COLD WEATHER DIESEL TREATMENT

PRODUCT # 10865, 10866, 10867, 10868, 20865, 20866



TEST	ASTM	TYPICAL
API Gravity	D-1298	39.81
Specific Gravity @ 60°F	D-1298	0.826
Density @ 60°F LBS/US Gal	D-1298	6.879
Viscosity @ 40°C cSt	D-445	2.8
Flash Point, PMCC °F	D-93	>140
Appearance	Visual	Bright & Clear
Color	Visual	Amber
Odor		Petroleum

Lucas Anti-Gel Cold Weather Diesel Treatment is especially designed to prevent cold filter plugging, fuel thickening and gelling in ULSD, diesel and bio-diesel fuels. The product is manufactured with the highest quality components to provide maximum performance. It contains REAL water dispersants to effectively remove moisture from the entire fuel system. It does not contain alcohol, will not void OEM warranties and has no harmful effects on diesel particulate filters. Comes in quarts and 64 ounce bottles and is also available in 5 gallon pails and 55 gallon drums depending on the amount of fuel that is being treated. One quart treats 150 gallons of fuel and lowers the cold filter plugging point to -10°F. For temperatures below -10°F add a second bottle with protection down to -40°F. One 64 ounce bottle treats 300 gallons of fuel and lowers the cold filter plugging point to -10°F. For temperatures below -10°F add a second bottle with protection down to -40°F. Use 64 ounce ratio for 5 gallon pails and 55 gallon drums. For increased fuel mileage, fewer exhaust emissions and extended engine life use LUCAS UPPER CYLINDER LUBRICANT at every fill up (Part # 10003, 10013).

**WARNING:** This product can expose you to chemicals including naphthalene, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# FUEL STABILIZER

PRODUCT # 10302, 10303, 10314, 10324, 10325,  
10326, 10466, 20302, 20303, 20314



TEST	ASTM	TYPICAL
API Gravity	D-1298	34.9
Specific Gravity @ 60°F	D-1298	.8514
Density @ 60°F	D-1298	7.089
Viscosity @ 40° C cSt	D-445	13.3
Viscosity @ 100°C cSt	D-445	3.5
Flash Point, COC °F	D-92	190
Color		Bright Blue

Lucas Fuel Stabilizer prevents fuel degradation during storage that causes gum and varnish deposits. It cleans, lubricates and maintains fuel pumps, carburetors, fuel injectors and compression rings. Lucas Fuel Stabilizer is safe to use in all grades of gasoline and in all two and four cycle engines. EASY TO USE. One (1) fluid ounce treats one (1) gallon of gasoline.

**NEW!**

# CETANE POWER BOOSTER

PRODUCT # 11031, 11032



TEST	ASTM	TYPICAL
API Gravity	D-1298	25.3
Specific Gravity	D-1298	0.898
Density @ 60°F Lbs/Gal	D-1298	7.491
Viscosity @ 40°C, cSt	D-445	21.5
Color	D-1500	2.0
Appearance		Clear, Amber Liquid

Modern diesel engines are highly sophisticated pieces of machinery that demonstrate much better power and fuel economy than ever before. Traditionally, diesel engines had the reputation for being able to burn almost anything – in the jargon of the industry, diesels were said to be “fuel insensitive.” That is no longer the case.

The EMA (Truck and Engine Manufacturers Association) says this about diesel fuel and Cetane Number: “Generally, diesel engines will operate better year-round on fuels with Cetane Numbers above 50, compared to fuels with cetane numbers of the national average of approximately 45. Cetane Number may be increased through the refining process or the blending of combustion ignition-improving additives by fuel suppliers.”

Regarding diesel fuel lubricity they say this: “Lubricity describes the ability of a fluid to minimize friction between, and damage to, surfaces in relative motion under loaded conditions. Diesel fuel injection equipment relies on the lubricating properties of the fuel. Shortened life of engine components such as fuel injection pumps and unit injectors usually can be attributed to a lack of fuel lubricity and, hence, lubricity is of concern to engine manufacturers. This property is not addressed adequately by ASTM D 975.”

And finally, concerning diesel fuel detergency they state: “Some diesel fuels which do not contain detergents, have a tendency to form carbon deposits on certain fuel injectors. It has generally been found that low sulfur fuels and thermally unstable fuels have a greater tendency to form these deposits. Detergent additives will prevent carbon deposits, which interfere with fueling and fuel spray patterns, from forming. Dirty injectors will invariably give rise to higher smoke levels in all equipment and, in some equipment, can limit power by restricting flow.”

These are not quotes taken from manufacturers of fuel treatments or promoters of additives, but the EMA Consensus Position (JOINT EMA/TMC PUMP GRADE SPECIFICATION FOR PREMIUM DIESEL FUEL). Major diesel truck and engine manufacturers are members of EMA and include: Caterpillar, Cummins, Daimler Trucks of North America, Ford Motor Company and Deere & Company (AKA John Deere).

So how does Lucas Cetane Power Booster affect these three areas?

- Will increase Cetane values by up to 6 numbers
- Tested against unaditized fuel in ASTM D975 at an independent lab and reduced the wear scar by over 27%, conforming to ASTM D975 limits.
- Contains a keep-clean dose of diesel fuel detergent that keep carbon deposits from forming on injectors and with regular use will clean dirty injectors. In recent years with the advent of ultra-low sulfur diesel (ULSD) and high-pressure common rail diesel injection, internal injector deposits have also become an issue. Regular use of Lucas Cetane Booster will also prevent this new form of deposit.

Use Lucas Cetane Power Booster for quick starting, especially in cold weather, to lubricate and protect vital engine parts and to maintain peak performance and fuel economy.

 **WARNING:** This product can expose you to benzene, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# **COLD WEATHER CONCENTRATE**

**PRODUCT # 10520**

<b>TEST</b>	<b>ASTM</b>	<b>TYPICAL</b>
<b>API Gravity</b>	<b>D-1298</b>	<b>25.83</b>
<b>Specific Gravity @ 60°F</b>	<b>D-1298</b>	<b>0.8994</b>
<b>Density @ 60°F LBS/US Gal</b>	<b>D-1298</b>	<b>7.49</b>
<b>Viscosity @ 40°C cSt</b>	<b>D-445</b>	<b>10.00</b>
<b>Flash Point, PMCC °F</b>	<b>D-93</b>	<b>167</b>
<b>Color</b>		<b>Dark</b>
<b>Odor</b>		<b>Petroleum</b>

Lucas Cold Weather Concentrate is a unique and extremely effective diesel anti-gel system that improves the cold temperature flow properties of ultra low sulfur fuel, standard diesel fuel, and bio-diesel. It reduces the pour point, cold filter plugging point and low temperature fluidity. It prevents diesel fuel gelling and vastly improves cold temperature operability. The sulfur content of Cold Weather Concentrate does not exceed 15 ppms. This diesel fuel additive complies with the Federal low sulfur content requirements for use in diesel motor vehicles. Nine (9) fluid ounces of Cold Weather Concentrate in 100 gallons of ultra low sulfur fuel effectively lowers the cold filter plugging point down to -20°F. An extra 3 ounce treat rate lowers the cold filter plugging point down to -25°F. The effectiveness in bio-diesel will depend on the amount of vegetable oil in the fuel.

## **BLEND RATIO CHART FOR COLD WEATHER TREATMENT ULTRA LOW SULFUR DIESEL FUEL**

<b>Diesel Fuel Gallons</b>	<b>Ounces of Additive (-20°F)</b>	<b>Ounces of Additive (-25°F)</b>
100	9	12
500	45	60
1000	90	120
1500	135	180
2000	180	240
2500	225	300
3000	270	360
3500	315	420
4000	360	480
4500	405	540
5000	450	600
5500	495	660
6000	540	720
6500	585	780
7000	630	840
7500	675	900
8000	720	960
8500	765	1020
9000	810	1080
9500	855	1140
10000	900	1200
15000	1350	1800
20000	1800	2400
25000	2250	3000

# OCTANE BOOSTER

PRODUCT # 10026, 10725, 10930, 20026



TEST	ASTM	TYPICAL		
		STANDARD	CONCENTRATE	MOTORCYCLE
API Gravity	D-1298	36.2	32.5	35.0
Specific Gravity @ 60°F	D-1298	0.844	0.863	0.850
Density @ 60°F LBS/US Gal	D-1298	7.04	7.19	7.09
Viscosity @ 40°C cSt	D-445	11.3	16.6	14.0
Flash Point, PMCC °F	D-93	165	165	165
Appearance	Visual	Clear Straw Colored Liquid		

Lucas Octane Booster is a genuine performance enhancer! It has been tested and proven to deliver at least three times more Boost than most other brands. It is suitable for use in fuel injected, carbureted, throttle body and rotary engines. It's safe for turbos, oxygen sensors and catalytic converters. Lucas Octane Booster contains specific upper cylinder lubricants that ensure easier piston travel and valve seat protection. It also ensures maximum life and performance from pumps, injectors and carburetors. Lucas Octane Booster eliminates spark knocks, pinging and dieseling. It promotes clean fuel burn for fewer emissions and more MPG. Use with each fill-up for maximum performance and fuel mileage. One (1) 15 oz bottle treats up to 25 gallons of leaded or unleaded gasoline. Lucas Octane Booster is safe for use in any engine on the track or off road. Because of its high potency, Lucas Octane Booster is not street legal. Available in three versions: Standard (15 fl oz), Concentrate (5.25 fl oz) and Motorcycle (2 fl oz). Remember: When comparing other brands of octane booster, 10 points equal only one octane number.

**WARNING:** This product can expose you to naphthalene, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# HIGH MILEAGE FUEL TREATMENT

PRODUCT # 10977, 10109, 20977



TEST	ASTM	TYPICAL
API Gravity	D-1298	26.2
Specific Gravity @ 60°F	D-1298	.862
Viscosity @ 40°C cSt	D-445	25
Flash Point, PMCC °F	D-93	180
Color	Visual	Pale Yellow
TBN, mg KOH/gram	D-2896	5

Lucas High Mileage Fuel Treatment is created specifically to restore lost power and performance in high-mileage vehicles. It cleans and lubricates fuel system components, removes valve deposits, lessens oil contamination and stops knocking and hesitation. Additionally, Lucas High Mileage Fuel Treatment works great in modern port-injected engines - maintaining maximum flow and providing lubrication to critical parts. CONTAINS NO ALCOHOL. OXYGEN-SENSOR SAFE.

**WARNING:** This product can expose you to naphthalene, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

## **POWER STEERING STOP LEAK**

PRODUCT # 10008, 10011, 10143, 10145, 20008, 20011



<b>TEST</b>	<b>ASTM</b>	<b>TYPICAL</b>
<b>API Gravity</b>	<b>D-1298</b>	<b>22.0</b>
<b>Specific Gravity @ 60°F</b>	<b>D-1298</b>	<b>.9218</b>
<b>Density @ 60°F LBS/US Gal</b>	<b>D-1298</b>	<b>7.676</b>
<b>Viscosity @100°C cSt</b>	<b>D-445</b>	<b>45.0</b>
<b>Flash Point, COC °F</b>	<b>D-92</b>	<b>435</b>
<b>Color</b>		<b>Light Red</b>
<b>Odor</b>		<b>Petroleum</b>
<b>Appearance</b>		<b>Light Tackiness</b>

Lucas Power Steering Stop Leak eliminates hard spots and stops seal leaks. This formula is a blend of special oils and petroleum-extracted additives. It contains no solvents. There are no harmful long term effects. As a matter of fact, it is an excellent preventative maintenance product for new units. If the system is leaking add Lucas Power Steering Stop Leak until leak stops, usually one bottle. Occasionally a second bottle is needed to completely stop some leaks. To eliminate squeals, whines and hard spots (morning sickness) some fluid must be sucked from fluid reservoir usually 6 to 12 ounces depending on severity of problem. Refill reservoir with Lucas Power Steering Stop Leak. Results are immediate and long lasting. Lucas Power Steering Stop Leak is guaranteed to stop seal leaks or your money back!

## **POWER STEERING FLUID**

PRODUCT # 10823, 10824, 20823, 20824



<b>TEST</b>	<b>ASTM</b>	<b>TYPICAL</b>
<b>API Gravity</b>	<b>D-1298</b>	<b>30.40</b>
<b>Specific Gravity @ 60°F</b>	<b>D-1298</b>	<b>0.874</b>
<b>Density @ 60°F LBS/US Gal</b>	<b>D-1298</b>	<b>7.278</b>
<b>Flash Point, COC °F</b>	<b>D-92</b>	<b>460</b>
<b>Pour Point, °C (°F)</b>	<b>D-97</b>	<b>-18 (0)</b>
<b>Viscosity @ 40°C cSt</b>	<b>D-445</b>	<b>62.0</b>
<b>Viscosity @ 100°C cSt</b>	<b>D-445</b>	<b>8.9</b>
<b>Viscosity Index</b>	<b>D-2270</b>	<b>119</b>
<b>Color</b>	<b>D-1500</b>	<b>0.5</b>

Lucas Power Steering Fluid is a general purpose product. It is formulated with special base oils and additives that add lubricity to help stop wear and improve performance. It contains mild seal swell agents that condition o-rings and seals to help prevent small leaks. Maintains smooth power steering operation and helps stop pump squealing. Lucas Power Steering Fluid contains supplemental oxidation inhibitors and foam inhibitors to help extend fluid life.

# POWER STEERING FLUID WITH CONDITIONERS

PRODUCT # 10442, 20442



TEST	ASTM	TYPICAL
API Gravity	D-1298	34.1
Specific Gravity @ 60°F	D-1298	0.854
Density @ 60°F LBS/US Gal	D-1298	7.12
Flash Point, COC °F	D-92	475
Viscosity @ 40°C cSt	D-445	63.0
Viscosity @ 100°C cSt	D-445	10.8
Viscosity Index	D-2270	163
Color	Visual	Amber
Brookfield Viscosity @ -40°C, cps	D-2983	33,000 Typical

Lucas Power Steering Fluid with Conditioners is formulated with the highest quality synthetic base oils and additives to help prevent power steering unit leaks, provide smooth operation and eliminate squealing. Our unique chemistry prolongs fluid life, improves fluid shear stability and improves fluid oxidation to minimize sludge and varnish formation. It reduces parts wear and extends equipment life. It cleans and smoothes internal springs and valves to help eliminate sticking and conditions seals to minimize or stop small leaks. Lucas Power Steering Fluid with Conditioners also reduces sluggish operation and noise and chatter. It contains an effective foam inhibitor and maintains cold temperature properties for power steering fluid. Designed for use in both new and older vehicles. Can be used in Honda Systems.

**WARNING:** This product can expose you to chemicals including toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# AUTOMATIC TRANSMISSION FLUID CONDITIONER

PRODUCT # 10441, 20441



TEST	ASTM	TYPICAL
Specific Gravity @ 60°F	D-1298	0.856
Density @ 60°F LBS/US Gal	D-1298	7.13
Flash Point, COC °F	D-92	450
Viscosity @ 40°C cSt	D-445	76.5
Viscosity @ 100°C cSt	D-445	12.6
Viscosity Index	D-2270	166
Color	Visual	Red
Brookfield Viscosity @ -40°C, cps	D-2983	20,000 Max

Lucas Automatic Transmission Fluid Conditioner is formulated with the highest quality synthetic base oils and additives to help prevent minor leaks and promote smoother shifting. Our unique chemistry prolongs fluid life, improves fluid shear stability and improves fluid oxidation to minimize sludge and varnish formation. It reduces parts wear and extends equipment life; it also reduces noise and shudder. Lucas ATF Conditioner contains an effective foam inhibitor and conditions seals to minimize or stop small leaks. It maintains cold temperature properties and improves shifting performance. Designed for use in both new and older vehicles. Compatible with commercial and synthetic ATF fluids. Do not use in Ford Type F and CVT.

# TRANSMISSION FIX

PRODUCT # 10009, 10087, 10141, 10154, 20009



TEST	ASTM	TYPICAL
<b>Specific Gravity @ 60°F</b>	<b>D-1298</b>	<b>.9273</b>
<b>Density @ 60°F LBS/US Gal</b>	<b>D-1298</b>	<b>7.722</b>
<b>Viscosity @100°C cSt</b>	<b>D-445</b>	<b>40.0</b>
<b>Flash Point, COC °F</b>	<b>D-92</b>	<b>435</b>
<b>Color</b>		<b>Red</b>
<b>Odor</b>		<b>Petroleum</b>
<b>Texture</b>		<b>Slight Tacky</b>

Lucas Transmission Fix contains no solvents or anything else that would be harmful to an automatic transmission. It is a thermal stable blend of petroleum-extracted additives designed to correct existing problems and prevent new ones in automatic transmissions. Lucas Transmission Fix stops slip, hesitation and rough shifting in worn transmissions. It completely eliminates most seal leaks and lowers operating temperatures in hard working units. A must for motor homes and commercial vehicles. Lucas Transmission Fix is excellent for preventative maintenance and will extend fluid life up to four times longer. It also extends needed protection to planetary gears. One (1) 24 oz. bottle of Lucas Transmission Fix can be added to existing fluid without draining. A second bottle may be necessary in large or badly worn transmissions. In smaller transmissions (compact or sub-compact vehicles), use 12 oz. Lucas Transmission Fix is also excellent for light duty manual transmissions using automatic transmission fluid or motor oil as a lubricant. For easier shifting and extended transmission life drain transmission, install one 24-ounce bottle of Lucas Transmission Fix and top off with ATF or motor oil. Compatible with all transmissions and transmission fluids with the exception of CVT transmissions and transmission fluids.

# GUN OIL

PRODUCT # 10006, 10010, 10560



TEST	ASTM	TYPICAL
<b>API Gravity</b>	<b>D-1298</b>	<b>26.4</b>
<b>Specific Gravity @ 60°F</b>	<b>D-1298</b>	<b>.8961</b>
<b>Density @ 60°F LBS/US GAL</b>	<b>D-1298</b>	<b>7.462</b>
<b>Viscosity @ 100°C cSt</b>	<b>D-445</b>	<b>8.0</b>
<b>Flash Point, COC °F</b>	<b>D-92</b>	<b>425</b>
<b>Color</b>		<b>Light Red</b>
<b>Neutralization Number</b>	<b>D-664</b>	<b>.02</b>
<b>Ash - Wt %</b>		<b>Nil</b>
<b>Sulphur - Wt%</b>		<b>0.01</b>
<b>Solvents</b>		<b>None</b>

Lucas Gun Oil is a special blend of oil and petroleum-extracted additives producing an all-weather, odorless lubricant. Its odorless formulation is a must for use on hunting firearms. The polymeric film protects metal from rust, wear and moisture during all hunting and shooting conditions. Applying Lucas Gun Oil to the bore and action makes clean-up of powder residue, copper fouling and wad fouling a much easier task. It resists burning off many times longer than conventional gun oils. Lucas Gun Oil cuts through rust and frees stuck parts and actions. It neutralizes acids from fingerprints to help prevent rusting. Lucas Gun Oil resists drying for long term storage use. Lucas Gun Oil is great for general lubrication on all your sporting firearms and compound bows.



**NEW!**

# PENETRATING OIL AEROSOL

PRODUCT # 11043

TEST	ASTM	TYPICAL
API Gravity	D-1298	39.5
Specific Gravity @ 60°F	D-1298	.828
Density @ 60°F LBS/GAL	D-1298	6.9
Viscosity @ 100°C cSt	D-445	1.5
Color		Amber
Flash Point, PMCC °F	D-93	167

Lucas Penetrating Oil loosens rusted-on nuts and bolts finding its way between the tiniest of crevasses between metal parts and lubricating them. Lucas Penetrating Oil is fortified with powerful corrosion inhibitors and wetting agents that insure protection to parts exposed to the elements. Evaporation is slow, leaving a tenacious film that fights water and corrosion. Use on: nuts, bolts, hinges, bearings, sliding doors, bicycle chains and a million other uses around the home, garage, shop and office! Stops those annoying squeaks. Equipped with a locking pop-up tube and 360° applicator – use in any position even upside down; the product goes where you want it to and you never lose the straw.

# AIR TOOL LUBRICANT

PRODUCT # 10200, 10216, 10225, 10092, 20200, 20216

# TOOL BOX BUDDY

PRODUCT # 10070, 20070



TEST	ASTM	TYPICAL
API Gravity	D-1298	26.9
Specific Gravity @ 60°F	D-1298	.8933
Density @ 60°F LBS/GAL	D-1298	7.438
Viscosity @ 100°C cSt	D-445	7.5
Color		Clear Yellow
Flash Point, COC °F	D-92	430
Neutralization number	D-664	.02
Ash - Wt %		Nil
Carbon Residue Ram - Wt %		0.05
Sulphur - Wt %		0.02
Solvents		None

EXPECT MUCH LONGER TOOL LIFE AND LESS OIL USAGE

These long lasting super slick tenacious products allow the tool to run easier and last much longer. Lucas Heavy Duty Air Tool Lubricant and Tool Box Buddy have been developed for the working professional who demands top performance. Lucas Heavy Duty Air Tool Lubricant and Tool Box Buddy products are a complex blend of pure petroleum oils and additives especially formulated to combat rust and varnish. It coats the working parts with a cushion of waterproof lubricants that resist “blowout,” enabling it to lube the tool, not the floor.



# MULTI-PURPOSE PARTS CLEANER & DEGREASER

PRODUCT # 11115

Lucas Multi-Purpose Parts Cleaner & Degreaser is an effective product for virtually any automotive application. It contains a blend of solvents combined with advanced Polyetheramine (PEA) detergents to help clean and degrease throttle bodies/carburetors, chokes, brake calipers, rotors, air intake systems, and other unpainted metal parts and surfaces. It is a low VOC formula (Volatile Organic Compound) meeting the regulatory requirements in all 50 states.

- Removes gum and varnish from throttle bodies and intake manifold runners and ports that can cause loss of power, rough idle, high emissions and hard starting
- Attacks intake valve deposits for a cleaner more fuel-efficient engine
- Helps remove unwanted deposits such as oil, brake fluid, grease, dirt and sludge from brake rotors and calipers for better stopping performance and smoother operation
- Forceful and effective spray pattern
- Fast drying in every application
- Will not harm catalytic converters and oxygen sensors
- Does not contain CFC's or chlorinated solvents
- 50 state VOC compliance

 **WARNING:** This product can expose you to chemicals including toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

## ASSEMBLY LUBE

PRODUCT # 10152, 10153, 10390, 10559, 20152, 20523



TEST	ASTM	TYPICAL
API Gravity	D-1298	27.8
Specific Gravity	D-1298	.888
Density @ 60°F	D-1298	7.404
Viscosity @ 100°C cSt	D-445	120
Flash Point, COC °F	D-92	410
Color		Green
Odor		Mint

Lucas Oil Assembly Lube is designed to be used as an initial lubricant to metal. Apply to critical engine surfaces before assembly in order to prevent metal contact upon startup before adequate lubrication is supplied. Lucas Oil Assembly Lube will mix with any oil and will not plug filters. This product clings to all surfaces and is an excellent rust inhibitor, allowing long-term storage for all parts. It provides superior protection against metal transfer during the break-in and running of a new or re-built engine. Lucas Assembly Lube is useful wherever tension or torque is applied. Use Lucas Assembly Lube only in small adequate amounts. Lucas Oil Assembly Lube Performance Advantages: Perfect for engine building or any assembly; contains Zinc, moly and other extreme pressure additives for maximum protection during engine break-in; provides outstanding rust/corrosion protection; also great for long-term storage. Use to pre-lube bearings, cams, lifters valve train. Prevents seizing, galling and scuffing. Super slick and tacky providing excellent film strength. Compatible with conventional mineral and synthetic oils. High Temperature service capability.

# ENGINE BREAK-IN OIL ADDITIVE

## TB ZINC PLUS

PRODUCT # 10063, 10472, 20063



TEST	ASTM	TYPICAL
<b>API Gravity</b>	<b>D-1298</b>	<b>8.8</b>
<b>Specific Gravity @ 60°F</b>	<b>D-1298</b>	<b>1.0093</b>
<b>Density @ 60° F LBS/US Gal</b>	<b>D-1298</b>	<b>8.406</b>
<b>Viscosity @ 40°C cSt</b>	<b>D-445</b>	
<b>Viscosity @ 100°C cSt</b>	<b>D-445</b>	<b>13.5</b>
<b>Flash Point, COC °F</b>	<b>D-92</b>	<b>340</b>
<b>Color</b>		<b>Amber/Brown</b>

Addition of 16 oz. to 4.5 quarts motor oil will achieve approximately 5,000 ppm of Zinc

Lucas TB Zinc-Plus Engine Break-In Oil Additive is designed for all who fear the initial break-in period of any new motor, especially if they are running a flat tappet camshaft. After reviewing our customer service requests, we found that many of our customers had requested an additive package that would protect the new or rebuilt hot rod or race motor they have built. The new Lucas Oil TB Zinc-Plus has an additive package that will help seat in the new rings while providing an excellent extreme pressure additive package that will help protect the entire valve train, and of course, the camshaft. We have found through dyno testing that the engines do, in fact, break-in much faster with less blow by, and will require less time on the dyno prior to installing in your hot rod or race car. The new TB Zinc-Plus is also safe for use in any racing situation to increase your extreme pressure additives in any conventional or synthetic motor oil. Remember: Lucas Engine Break-In Oil Additive TB Zinc-Plus protects camshaft lifters and valve train during break-in period of motors. It is excellent for flat tappet camshafts during break-in or as an additive to any motor oil to prevent premature wear. It contains an exclusive blend of extreme pressure additives and is designed for race applications requiring additional extreme pressure additives. Dyno testing shows a more efficient break-in when used, resulting in less engine run time prior to race day. Add one bottle with every oil change to increase the zinc content of your motor oil. Addition of 16 oz. to 4.5 quarts motor oil will achieve approximately 5,000 ppm of Zinc. Not designed for passenger car use. TB Zinc-Plus is available in a 16 oz. bottle and is packaged 12 to a case.

# CHAIN LUBE AEROSOL

PRODUCT # 10393, 20393



TEST	ASTM	TYPICAL
<b>API Gravity @ 60°F</b>	<b>D-1298</b>	<b>34.91</b>
<b>Specific Gravity @ 60°F</b>	<b>D-1298</b>	<b>.85</b>
<b>Density @ 60°F LBS/US Gal</b>	<b>D-1298</b>	<b>7.09</b>
<b>Viscosity @ 100°C cSt</b>	<b>D-445</b>	<b>14</b>
<b>Flash Point, PMCC °F</b>	<b>D-93</b>	<b>167</b>
<b>Color</b>		<b>Amber</b>

Contains: Organic Molybdenum

Lucas Chain Lube-Aerosol is a semi-synthetic spray lubricant designed to meet the severe demands of today's high performance motorcycle chains and sprockets. It provides excellent rust and corrosion protection as well as outstanding water resistance and is designed to penetrate deeply into the pins and bushings of the chains. Lucas Chain Lube-Aerosol provides excellent anti-friction properties that ensure minimum wear and minimum drag. It does not fling off at high speeds and resists dust and sand to minimize gum formation. This product is suitable for use in all chains including "O" ring types. It keeps O rings moist and pliable and resists drying. It sprays anywhere, even upside down without depleting the propellant. It contains no chlorine and fluorocarbons.



# CHAIN LUBRICANT

PRODUCT # 10014, 10025, 10036, 20014

TEST	ASTM	TYPICAL
<b>API Gravity @ 60°F</b>	<b>D-1298</b>	<b>24.6</b>
<b>Specific Gravity @ 60°F</b>	<b>D-1298</b>	<b>.9065</b>
<b>Density @ 60°F LBS/US Gal</b>	<b>D-1298</b>	<b>7.549</b>
<b>Viscosity @ 100°C cSt</b>	<b>D-445</b>	<b>65.0</b>
<b>Flash Point, COC °F</b>	<b>D-92</b>	<b>417</b>
<b>Color</b>		<b>Dark Brown</b>

Contains: Organic Molybdenum

Lucas Chain Lubricant is a complex blend of special additives and select base oils formulated to be a long-lasting, all-weather, all-temperature lubricant and protectant for chains, sprockets, cables and open gears. It has excellent high temperature stability. Since it is stable and water resistant, it should be applied to any nuts, bolts or components that are subjected to long-term atmospheric exposure (rust). Lucas Chain Lubricant should be applied to any sliding surface where an exceptional lubricant is needed. Lucas Chain Lubricant has special agents to resist slinging off fast moving chains and gears. It resists water, even salt water. It breaks up rust and penetrates. It has excellent resistance to dirt. For an exceptional chainsaw bar oil, add about 10% Lucas Chain Lubricant to any other oil. The user can expect longer chain life, longer bar life, more RPMs and much less oil usage. It is compatible with automotive lubricants; an excellent gear oil additive and a superb assembly lube.



# 5TH WHEEL & SLIDER LUBE

PRODUCT # 10030, 10031, 20030

TEST	ASTM	TYPICAL
<b>API Gravity</b>	<b>D-1298</b>	<b>22.3</b>
<b>Specific Gravity</b>	<b>D-1298</b>	<b>.9200</b>
<b>Density @ 60°F</b>	<b>D-1298</b>	<b>7.661</b>
<b>Viscosity @ 100°C cSt</b>	<b>D-445</b>	<b>200.0</b>
<b>Flash Point, COC °F</b>	<b>D-92</b>	<b>417</b>
<b>Color</b>		<b>Black</b>
<b>Odor</b>		<b>Petroleum</b>
<b>Texture</b>		<b>Very Tacky</b>

Lubrication is usually done with only a thin film of lubricant and 5th Wheels are no exception. No matter how much grease you pile on a 5th wheel, only a thin film remains after the weight of a trailer settles on it. So why not put on a thin film to start. Lucas 5th Wheel & Slider Lube is a clean, inexpensive alternative to grease. It has a film strength many times stronger than grease. It is slicker than grease, and it's waterproof. Since it is not a grease, it will not leave goeey soap behind after the lubricant is exhausted. This performance feature will help minimize maintenance issues in the lock mechanisms associated with the crusty, cruddy soap remaining in the system. Snip the tip on the 16 oz. bottle and string over the dry spot on the 5th Wheel. On slider rails, squeeze the bottle as you drag the tip down the slider rail. One thin string is all that is necessary. Move the trailer back and forth on the slider rail to spread the lube. This should provide months of easy sliding. Remember... dry 5th wheels are a major cause of front tire wear, front end wear, spring bushing wear and jack-knifing.

# SPROCKET & CHAIN LUBE

PRODUCT # 10525



TEST	ASTM	TYPICAL
API Gravity @ 60°F	D-1298	24.6
Specific Gravity @60°F	D-1298	.9065
Density @ 60°F LBS/US Gal	D-1298	7.549
Viscosity @ 100°C cSt	D-445	65.0
Flash Point, COC °F	D-92	417
Color		Dark Brown

Contains: Organic Molybdenum

Lucas Sprocket & Chain Lube is a complex blend of special additives and select base oils formulated to be a long-lasting, all-weather, all-temperature lubricant and protectant for chains, sprockets, cables and open gears. It has excellent high temperature stability. Since it is stable and water resistant, it should be applied to any nuts, bolts or components that are subjected to long-term atmospheric exposure (rust). Lucas Sprocket & Chain Lube should be applied to any sliding surface where an exceptional lubricant is needed. Lucas Sprocket & Chain Lube has special agents to resist slinging off fast moving chains and gears. It resists water, even salt water. It breaks up rust and penetrates. It has excellent resistance to dirt. Specially designed for use in Go-Karts and other chain drives. Less friction at higher RPM's means less drag and longer component life.

# RED "N" TACKY / 5th WHEEL LUBE

PRODUCT # 10676



TEST	ASTM	TYPICAL
Thickener Type		Lithium 12 Hydroxy Stearate
Texture		Smooth, Tacky
Color		Red
Penetration, 60 Strokes	D-217	265-295
Water Wash-Out, % Loss	D-1264	10
Oil Separation, Wt% Loss	D-1742	10
Dropping Point, °F (°C)	D-2265	380 (193)
Rust Prevention	D-1743	Pass
Copper Corrosion	D-4048	1b
Oxidation Stability, psi drop	D-942	5
Four Ball Wear, mm Scar	D-2266	0.5
Four Ball EP Weld Point, Kg	D-2596	250
Four Ball Load Wear Index, Kgf	D-2596	40
Timken OK Load, lb	D-2509	50
Base Oil Viscosity	D-445	
SUS @ 100°F		875-1200
100°C cSt		14.5-17.5
40°C, cSt		165-225
Viscosity Index		80

Lucas Red 'N' Tacky / 5th Wheel Lube is a heavy duty, water resistant lubricant containing rust and corrosion inhibitors and is specifically designed for 5th wheel applications. Our 2.5 ounce bag is easy to handle creating little or no mess. For best results, put one packet on each side of the king pin. The bag will disintegrate leaving no waste.



# HUB OIL

PRODUCT # 10088, 10089, 10093, 20088

TEST	ASTM	TYPICAL
API Gravity	D-1298	23.6
Specific Gravity @ 60°F	D-1298	.9123
Density @ 60°F	D-1298	7.597
Viscosity @ 100°C cSt	D-445	85.0
Flash Point, COC °F	D-92	430
Color		Amber
Odors		Characteristic Petroleum

Lucas Hub Oil is a perfect preventative maintenance product. Gear oil used in hubs is overworked and often neglected. Lucas Hub Oil is a heavy-duty blend of special oils and additives designed to compensate for these problems. Lucas Hub Oil is formulated to dry up most seal leaks and extend seal and bearing life. It allows hubs to run cooler and easier and to operate on a marginal amount of oil in case of a blown seal or poor maintenance.



# ANTI-SQUAWK / ANTI-SHUDDER ADDITIVE

PRODUCT # 10599

TEST	ASTM	TYPICAL
API Gravity	D-1298	33.8
Specific Gravity @ 60°F	D-1298	0.856
Density @ 60°F	D-1298	7.128
Viscosity @ 100°C cSt	D-445	8.7
Flash Point, COC °F	D-92	428
Foam	D-892	Pass
Brookfield Viscosity @ -26°C, CPS	D-2983	24,145
Color		Amber
Pour Point, °F	D-97	5

Lucas Anti-Squawk / Anti-Shudder Additive was developed to specifically address squawk noise in gear and transmissions of agricultural equipment at initial startup. 16 ounces of product eliminates the noise and is suitable for use in temperatures well below freezing. Our product also has been proven to be effective in reducing shudder in automotive transmissions including Hondas. Eight (8) ounces completely eliminates shudder and provides cold temperature protection down to -26°C. For use in transfer cases (4 to 8 ounces), positrac differentials (8 ounces), and hydraulic fluids in tractors (2 ounces).

# FISHING REEL OIL

PRODUCT # 10690, 10959



TEST	ASTM	TYPICAL
API Gravity	D-1298	26.4
Specific Gravity @ 60°F	D-1298	.8961
Density @ 60°F LBS/US GAL	D-1298	7.462
Viscosity @ 100°C cSt	D-445	8.0
Flash Point, COC °F	D-92	425
Color		Aqua Blue
Neutralization Number	D-664	.02
Ash - Wt %		Nil
Sulphur - Wt%		0.01
Solvents		None

Lucas Fishing Reel Oil is a special blend of oil and additives. It was specifically designed to lubricate all moving parts in fresh water and salt water fishing reels. Lucas Fishing Reel Oil provides rust and corrosion protection even under the most adverse conditions. Our new one-drop precision needle applicator bottle allows you to put just the right amount of lubricant into hard to reach areas.

**KEY BENEFITS:** Penetrates and lubricates. Excellent rust protection. Prevents fresh and saltwater corrosion. Long lasting. Meets or exceeds industry performance requirements.

**PACKAGING:** Part # 10690 - 1 fl oz.

# SUPER COOLANT

PRODUCT # 10640, 20640



TEST	ASTM	TYPICAL
API Gravity	D-1298	1.36
Specific Gravity @ 60°F	D-1298	1.065
Density @ 60°F Lbs/US Gal	D-1298	8.87
Appearance	Visual	Clear
Color	Visual	Blue
pH	D-1298	10.8

Lucas Super Coolant has been scientifically formulated to provide the ultimate protection in automotive and racing cooling systems. It protects the entire system from rust, corrosion and electrolysis including aluminum and has been proven to reduce coolant temperatures up to 20°F. Its unique formula prevents deposits that can cause overheating. Lower cylinder head temperatures means advanced ignition time and more horsepower. One bottle treats 12-20 quarts of a 50/50 water antifreeze mix. Two bottles are required for straight water coolant. For passenger cars, light trucks and SUV's use every 30,000 miles. For racing applications, use every race as needed. MOLYBDATE FREE FORMULA



# **ELECTRICAL CONTACT CLEANER AEROSOL**

**PRODUCT # 10799, 20799**

Lucas Contact Cleaner aerosol is a unique blend of solvents, cleaning agents and propellants designed to remove oil, dirt and moisture from contact points in small electrical equipment, controls, ignition systems, motors, relays and thermostats. This non-chlorinated, CFC free, VOC compliant formula dries quickly and leaves no residue. Lucas Contact Cleaner aerosol is compatible with metals, and elastomers. It is especially effective in motorcycle applications to clean electrical parts that have been exposed to high levels of oil, dirt and debris. Be careful when using around plastic. Although this product is compatible with most materials it is a good idea to treat a small area for compatibility purposes when using with plastic components. **EXTREMELY FLAMMABLE.** Do not store near fire, heated surfaces, sparks or flames. Turn off electrical equipment prior to cleaning and let dry completely before turning power back on.

 **WARNING:** This product can expose you to chemicals including benzene, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).



# **NON-CHLORINATED BRAKE PARTS CLEANER AEROSOL**

**STANDARD US FEDERAL PRODUCT  
PRODUCT # 10158**

**45% VOC FOR US STATES WITHIN THE  
OZONE TRANSPORT COMMISSION (OTC)  
PRODUCT # 10157**

**10% VOC FOR CALIFORNIA UTAH AND  
OTHER JURISDICTIONS  
PRODUCT # 10906, 20906**

Lucas Non-Chlorinated Brake Parts Cleaner is manufactured with the highest quality components to provide excellent performance without leaving any residue. It effectively removes brake fluid, grease, brake dust, and other contaminants from brake linings, pads, cylinders, springs and drums. Professional strength and powerful spray pattern improves performance of the product. For use on all ABS, disc and drum brakes. Quiets noise associated with excessive brake dust. Lucas Non-Chlorinated Brake Parts Cleaner is produced in three versions depending on the VOC limits in various jurisdictions. To remove brake fluid, grease, dust and other contaminants, spray liberally onto areas to be cleaned. Use in well ventilated area and wear safety glasses. Protect rubber, painted surfaces and plastic from overspray. Safe and effective when used as directed.

 **WARNING:** This product can expose you to chemicals including benzene, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# SYNTHETIC BRAKE FLUID DOT 3

PRODUCT # 10825, 10826, 20825, 20826



TEST	ASTM	TYPICAL
Color		Pale Yellow
Pounds per Gallon	D-1298	8.99
Specific Gravity	D-1298	1.08
API Gravity @ 60°F	D-1298	-0.5
Viscosity @ 100°C, cSt	D-445	2.0
Viscosity @ -40°C, cSt	D-445	1,179
Flash Point, PMCC, °F	D-93	250
pH	D-1287	8.6
Equilibrium Reflux, °F	Dry	478
Boiling Point, °F	Wet	339

Lucas DOT 3 Brake Fluid is a high quality blend of polyethylene glycol ethers and additives which meet or exceed the industry minimum dry boiling point of 401°F. It meets the Federal Motor Vehicle Safety Standard (FMVSS) No. 116 and SAE J1703 specifications. Lucas DOT 3 Brake Fluid is recommended for use in both disc and drum brake system and clutch system where this type of product is called out for. Lucas DOT 3 Brake Fluid is compatible with all brake system rubber components and other brake fluids. It prevents seal hardening or softening. It protects against rust and corrosion and provides excellent lubricity. Available in 12 ounce and 32 ounce bottles.

**WARNING:** This product can expose you to diethanolamine, which is known to the State of California to cause cancer, and ethylene glycol monomethyl ether, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# SYNTHETIC BRAKE FLUID DOT 4

PRODUCT # 10827, 20827



TEST	ASTM	TYPICAL
Color		Pale Yellow
Pounds per Gallon	D-1298	8.83
Specific Gravity	D-1298	1.06
API Gravity @ 60°F	D-1298	-0.5
Viscosity @ 100°C, cSt	D-445	1.8
Viscosity @ -40°C, cSt	D-445	842
Flash Point, PMCC, °F	D-93	250
pH	D-1287	7.8
Equilibrium Reflux, °F	Dry	476
Boiling Point, °F	Wet	325

Lucas DOT 4 Brake Fluid is a high quality blend of polyethylene glycol ethers and additives which meet or exceed the industry minimum dry boiling point of 446°F. It meets the Federal Motor Vehicle Safety Standard (FMVSS) No. 116 and SAE J1704 specifications. Lucas DOT 4 Brake Fluid is recommended for use in both disc and drum brake system and clutch system where this type of product is called out for. Lucas DOT 4 Brake Fluid is compatible with all brake system rubber components and other brake fluids. It prevents seal hardening or softening. It protects against rust and corrosion and provides excellent lubricity. Available in 12 ounce bottle.

**WARNING:** This product can expose you to diethanolamine, which is known to the State of California to cause cancer, and ethylene glycol monomethyl ether, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**X-TRA HEAVY DUTY GREASE**  
**NLGI #2 GC-LB**

PRODUCT # 10301, 10305, 10316, 10330, 10335, 20301, 20330



<b>TEST</b>	<b>ASTM</b>	<b>TYPICAL</b>
<b>Thickener Type</b>		<b>Polyurea</b>
<b>Texture</b>		<b>Smooth</b>
<b>Color</b>		<b>Green</b>
<b>Penetration Worked</b>	<b>D-217</b>	<b>285</b>
<b>Dropping Point °F(°C) Min.</b>	<b>D-2265</b>	<b>500(260)</b>
<b>Water Washout % Loss Max</b>	<b>D-1264</b>	<b>10.0</b>
<b>Rust Prevention</b>	<b>D-1743</b>	<b>Pass</b>
<b>Copper Corrosion, Rating</b>	<b>D-4048</b>	<b>1b</b>
<b>Oxidation Stability, PSI Loss Max</b>	<b>D-942</b>	<b>5</b>
<b>Oil Separation % Loss, Max</b>	<b>D-1742</b>	<b>5.0</b>
<b>4-Ball</b>		
<b>Weld Point</b>	<b>D-2596</b>	<b>400</b>
<b>Load Wear Index, Kgf.</b>	<b>D-2596</b>	<b>50</b>
<b>Timken OK Load, Lbs</b>	<b>D-2509</b>	<b>60</b>
<b>Base Oil Characteristics</b>		
<b>Viscosity @ 100°C, cSt</b>	<b>D-445</b>	<b>14.5</b>
<b>@ 40°C, cSt</b>	<b>D-445</b>	<b>145</b>
<b>@ 210°F, SUS</b>	<b>D-445</b>	<b>65.0</b>
<b>@ 100°F, SUS</b>	<b>D-445</b>	<b>675</b>
<b>Viscosity Index</b>		<b>99</b>

Lucas X-Tra Heavy Duty Grease has exceptional extreme pressure characteristics and excellent water resistance. It's recommended for steel mills, off-road equipment, fleet and commercial applications. It has excellent mobility at low temperatures. It lasts up to three times longer than ordinary grease and it's excellent for high speed bearings.

# RED "N" TACKY GREASE

## NLGI #2 GC-LB

PRODUCT # 10005, 10027, 10028, 10029, 10318, 10574, 20005



TEST	ASTM	TYPICAL
<b>Thickener Type</b>		<b>Lithium Complex</b>
<b>Texture</b>		<b>Smooth, Tacky</b>
<b>Color</b>		<b>Bright Red</b>
<b>Penetration</b>		
<b>0 Strokes</b>	<b>D-217</b>	<b>280</b>
<b>60 Strokes</b>	<b>D-217</b>	<b>280</b>
<b>10,000 Strokes</b>	<b>D-217</b>	<b>295</b>
<b>Timken OK Load, lbs</b>	<b>D-2509</b>	<b>60</b>
<b>Rust Prevention</b>	<b>D-1743</b>	<b>Pass</b>
<b>Water Wash-Out, % Loss</b>	<b>D-1264</b>	
<b>Test % Loss @ 175°F</b>		<b>&lt;5.0 Typ.</b>
<b>Four Ball E.P. Test</b>	<b>D-2596</b>	
<b>Weld Point, Kg</b>		<b>315</b>
<b>Load Wear Index, Kgf</b>		<b>40</b>
<b>Four Ball Wear Test D, mm</b>	<b>D-2266</b>	<b>.60 Max</b>
<b>Oil Separation, Mass % Loss</b>	<b>D-1742</b>	<b>6 Max</b>
<b>Wheel Bearing Leakage</b>		
<b>Test, 60 mph (660 RPM)</b>		
<b>- Grams Leakage</b>		<b>10 Max</b>
<b>Oxidation Stability</b>	<b>D-942</b>	<b>10 Max</b>
<b>Dropping Point, °F</b>	<b>D-2265</b>	<b>540</b>
<b>Base Oil Viscosity</b>	<b>D-445</b>	
<b>SUS @ 100°F</b>		<b>1000</b>
<b>100°C cSt</b>		<b>18</b>
<b>Viscosity Index</b>		<b>86 Min.</b>

Lucas Red 'N' Tacky Grease is a smooth, tacky, red, lithium complex grease fortified with rust and oxidation inhibitors. This product has good water resistance and washout properties. It has excellent mechanical stability and storage life. It is able to withstand heavy loads for extended periods of time. It can be used in many agricultural, automotive and industrial applications. Lucas Red 'N' Tacky Grease is fortified with a high degree of extreme pressure additives that give it a TRUE Timken load, much higher than other greases of this type. It's especially good for sliding surfaces and open gears.

# RED "N" TACKY SPRAY GREASE

PRODUCT # 11025



TEST	ASTM	TYPICAL
Texture		Smooth, Tacky
Color		Red
Worked Penetration (with Propellant Removed)	D-217	275 (after 60 strokes) 290 (after 10,000 strokes)
Timken OK Load, Lbs		60
Corrosion Prevention Test	D-2509	Pass
Base Oil Properties:	D-665	
Pour Point, °F		0
Flash Point, °F	D-97	450
Base Oil Viscosity	D-92	
@ 100°F, SUS	D-445	4,100
@ 210°F, SUS		280

Lucas Red "N" Tacky Spray Grease is a high-quality silica grease in a convenient aerosol package. The application is ideal for putting grease in those hard-to-reach areas. Our customers tell us there are many times that they'd prefer to lubricate a part or piece of equipment with grease, rather than a penetrating or general-purpose oil, common in aerosol cans, but need the convenience of a spray. Lucas Red "N" Tacky Spray Grease is the answer. Excellent for cars, trucks, RVs, industrial or farm equipment and around the house. Use wherever grease is the preferred lubricant. Features: A Narrow, Confined Spray Pattern; Fast Carrier Solvent Evaporation; Good Cling to the Applied Surface; Resists Separation; Resists Water Washout; Good Heat Resistance; Broad Temperature Use Range, 0°-450°F.

# RED "N" TACKY / 5th WHEEL LUBE

PRODUCT # 10676



TEST	ASTM	TYPICAL
Thickener Type		Lithium 12 Hydroxy Stearate
Texture		Smooth, Tacky
Color		Red
Penetration, 60 Strokes	D-217	265-295
Water Wash-Out, % Loss	D-1264	10
Oil Separation, Wt% Loss	D-1742	10
Dropping Point, °F (°C)	D-2265	380 (193)
Rust Prevention	D-1743	Pass
Copper Corrosion	D-4048	1b
Oxidation Stability, psi drop	D-942	5
Four Ball Wear, mm Scar	D-2266	0.5
Four Ball EP Weld Point, Kg	D-2596	250
Four Ball Load Wear Index, Kgf	D-2596	40
Timken OK Load, lb	D-2509	50
Base Oil Viscosity	D-445	
SUS @ 100°F		875-1200
100°C cSt		14.5-17.5
40°C, cSt		165-225
Viscosity Index		80

Lucas Red 'N' Tacky / 5th Wheel Lube is a heavy duty, water resistant lubricant containing rust and corrosion inhibitors and is specifically designed for 5th wheel applications. Our 2.5 ounce bag is easy to handle creating little or no mess. For best results, put one packet on each side of the king pin. The bag will disintegrate leaving no waste.

# MARINE GREASE

## NLGI #2 GC/LB

PRODUCT # 10320, 10321, 10322, 10660, 10682, 11048



TEST	ASTM	TYPICAL
Thickener Type		OBCS (Overbased) Calcium Sulfonate)
Texture		Smooth, Tacky
Color		Deep Blue
Penetration		
0 Strokes	D-217	280
60 Strokes	D-217	280
High Temperature Wheel Life	D-3527	80
Timken OK Load, lbs	D-2509	65
Rust Prevention	D-1743	Pass
Water Wash-Out, % Loss	D-1264	
Test % Loss @ 175°F		2.75
Four Ball E.P. Test	D-2596	
Weld Point, Kg		500
Load Wear Index, Kgf		65
Four Ball Wear Test D, mm	D-2266	0.39
Oil Separation, Mass % Loss	D-1742	0
Leakage Tendency, g	D-4290	1.3
Oxidation Stability	D-942	10 Max @1000 hrs
Dropping Point, °F	D-2265	572
Fretting Protection, mg	D-4170	4.2
Base Oil Viscosity	D-445	
cSt @ 40°C		120
cSt @ 100°C		13
Viscosity Index		95 mm
Low Temperature Torque, -40°C Nm	D-4693	15.5 Max

Lucas Marine Grease is a premium grease of the overbased calcium sulfonate type with inherently superior corrosion resistance, resistance to water washout, mechanical stability and extreme pressure lubrication. Due to these properties, it is ideally suited for marine applications where these important properties are intrinsic to the grease and not the result of fortification with additives. Additionally, Lucas Marine Grease has excellent load-carrying capacity and resistance to oxidation. It contains no heavy metals (e.g. lead, arsenic or antimony) or other environmentally harmful additives such as phosphorus, chlorine or zinc. Lucas Marine Grease meets NLGI Certification GC-LB. Not recommended for centralized dispensing systems requiring NLGI consistency number of 1 or less.

# HEAVY DUTY MINING AND CONSTRUCTION GREASE

## NLGI #2 GC-LB

PRODUCT # 10597, 10598, 10881, 20881



TEST	ASTM	TYPICAL
<b>Thickener Type</b>		<b>Lithium Complex</b>
<b>Texture</b>		<b>Smooth, Tacky</b>
<b>Color</b>		<b>Dark Gray</b>
<b>Penetration</b>		
<b>0 Strokes</b>	<b>D-217</b>	<b>280</b>
<b>60 Strokes</b>	<b>D-217</b>	<b>280</b>
<b>Timken OK Load, lbs</b>	<b>D-2509</b>	<b>70+</b>
<b>Rust Prevention</b>	<b>D-1743</b>	<b>Pass</b>
<b>Water Wash-Out, % Loss</b>	<b>D-1264</b>	
<b>Test % Loss @ 175°F</b>		<b>5.0</b>
<b>Four Ball E.P. Test</b>	<b>D-2596</b>	
<b>Weld Point, Kg</b>		<b>800+</b>
<b>Load Wear Index, Kgf</b>		<b>147</b>
<b>Four Ball Wear Test D, mm</b>	<b>D-2266</b>	<b>0.44</b>
<b>Oil Separation, Mass % Loss</b>	<b>D-1742</b>	<b>3.0</b>
<b>Wheel Bearing Leakage</b>		
<b>Test, 60 mph (660 RPM)</b>		
<b>- Grams Leakage</b>		<b>10 Max</b>
<b>Oxidation Stability</b>	<b>D-942</b>	<b>10 Max</b>
<b>Dropping Point, °F</b>	<b>D-2265</b>	<b>550+</b>
<b>Base Oil Viscosity</b>	<b>D-445</b>	
<b>40°C cSt</b>		<b>460</b>
<b>100°C cSt</b>		<b>19</b>

Lucas Heavy Duty Mining and Construction Grease is a smooth, dark gray, lithium complex grease fortified with 5% molybdenum disulfide to provide excellent shock loading protection in the most adverse operating conditions. This product protects wrist pins and booms from wear, and extends equipment life which reduces down time and improves productivity. Lucas Heavy Duty Mining and Construction Grease contains state of the art polymer system to provide stay-in-place performance even under the harshest of operating conditions. It has excellent water resistance, rust and corrosion inhibition properties and outstanding extreme pressure properties with a Timken OK load of 70+ pounds and a 4-Ball weld point of 800+ kgs. Industry minimum standard is 200 kgs. Lucas Heavy Duty Mining and Construction Grease can be used with grease guns as well as in centralized dispensing systems found in industrial plants and heavy duty equipment. We recommend this grease in Caterpillar 994 series loaders and 5130 and 5230 series shovels, off-road trucks, construction equipment, agricultural equipment, logging equipment, mining equipment (heavy duty top loaders), rock crushers, oil field equipment, off shore drilling equipment and marine deck equipment. We also recommend its use in 5th wheels, wheel bearings, chassis's and steering linkages. Lucas Heavy Duty Mining and Construction NLGI #2 Grease is GC-LB certified and meets or exceeds OEM specifications.

# WHITE LITHIUM GREASE

## NLGI #2

PRODUCT # 10533, 10535, 10536, 10537



TEST	ASTM	TYPICAL
Appearance	Visual	Buttery
Color	Visual	White
Soap Type		Lithium 12HSA
Filler		Titanium Dioxide
Penetration @ 77°F, Worked	D-217	265-295
Dropping Point, °F	D-2265	345
Base Oil Viscosity		
cSt @ 40°C	D-445	227
cSt @ 100°C	D-445	15.0

Lucas White Lithium Grease is formulated with the highest quality base oils and additives to provide mild extreme pressure properties. The white creamy appearance differentiates it from other products. The product is packaged in 8 ounce squeeze tubes for ease of application. Lucas White Lithium Grease is recommended for use in plain and anti-friction bearings operating under moderate load conditions. It is recommended for use in automotive chassis, trucks, tractors and contractor equipment. Not recommended for use in wheel bearings. Our product is truly versatile grease with applications in industrial, automotive and household applications including garage door openers, springs, hinges, etc.

# EXTREME PRESSURE SYNTHETIC GREASE

## NLGI #1

PRODUCT # 10563, 10584



TEST	ASTM	TYPICAL	SPEC
Thickener Type		Lithium Complex	
Texture		Smooth/Tacky	
Color		Aqua Blue	
Penetration			
0 Strokes @ 77°F	D-217	319	310-340
60 Strokes @ 77°F	D-217	319	310-340
Rust Prevention	D-1743	Pass	Pass
Four Ball E.P. Test	D-2596		
Weld Point, Kg		620	200 Min
Load Wear Index, Kg		109	30 Min
Dropping Point, °F	D-2265	496	428 Min
Fragrance		Peppermint	
Base Oil Viscosity			
cSt @ 40°C	D-445	336	
cSt @ 100°C	D-445	22.0	

Lucas Extreme Pressure Synthetic Grease is a heavily fortified lithium complex grease designed to provide protection under the most adverse racing conditions. Our grease has been proven in NHRA, NASCAR and Sprint Cars. It has excellent extreme pressure properties exceeding the minimum industry standards up to three times. Its unique additive chemistry differentiates us from anything on the market today and provides the ultimate performance our customers come to expect from Lucas products.

# EXTREME DUTY GUN GREASE

PRODUCT # 10889



TEST	ASTM	TYPICAL
Thickener Type		Lithium Complex
Texture		Smooth, Tacky
Color		Deep Blue
Penetration		
0 Strokes	D-217	280
60 Strokes	D-217	280
High Temperature Wheel Life	D-3527	80
Timken OK Load, lbs	D-2509	80
Rust Prevention	D-1743	Pass
Water Wash-Out, % Loss	D-1264	
Test % Loss @ 175°F		<8.0
Four Ball E.P. Test	D-2596	
Weld Point, Kg		620
Load Wear Index, Kgf		78
Four Ball Wear Test D, mm	D-2266	0.57
Oil Separation, Mass % Loss	D-1742	0
Leakage Tendency, g	D-4290	1.3
Oxidation Stability	D-942	10 Max
Dropping Point, °F	D-2265	540
Fretting Protection, mg	D-4170	4.2
Base Oil Viscosity	D-445	
cSt @ 40°C		224
cSt @ 100°C		15
Viscosity Index		50 Typ.
Low Temperature Torque, -40°C Nm	D-4693	15.5 Max
Odor		Grape

Lucas Extreme Duty Gun Grease is a premium, heavy duty firearm grease formulated with a unique additive system designed to provide maximum lubrication under the most severe operating conditions. This is a true firearms grease, it was developed to lubricate and protect under the harshest heat, friction and pressures of sustained firing while reducing friction and wear. Its unique formulation is designed to prevent rust and corrosion from rain and moisture in fresh and saltwater environments. Application to metal surfaces and bores will prevent corrosion during both use and long term storage. Lucas Oil Extreme Duty Gun Grease withstands extreme pressures and cushions metal surfaces with an 80 lb Timken load (35 lb is the minimum industry standard). Lucas Oil Extreme Duty Gun Grease is recommended for all firearms types. It provides excellent lubrication and protection on shotguns, pistols and revolvers as well as full auto carbines, rifles and belt fed machine guns.

## GEAR OILS

### SAE 80W-90 GEAR OIL

PRODUCT # 10043, 10046, 10066, 10067, 10069, 10511, 10385, 20046, 20047



#### TEST

#### ASTM

#### TYPICAL

<b>API Gravity</b>	<b>D-1298</b>	<b>25.0</b>
<b>Specific Gravity @ 60°F</b>	<b>D-1298</b>	<b>.9042</b>
<b>Density @ 60°F LBS/US Gal</b>	<b>D-1298</b>	<b>7.529</b>
<b>Viscosity @ 100°C cSt</b>	<b>D-445</b>	<b>15.0</b>
<b>Color</b>		<b>Clear Light Amber</b>
<b>Flash Point, COC °F</b>	<b>D-92</b>	<b>430</b>
<b>Odor</b>		<b>Characteristic Petroleum plus sulphur additives</b>
<b>AGMA Designation</b>		<b>4EP</b>
<b>FZG</b>		<b>12 Stage PASS</b>
<b>Brookfield Viscosity @ -26°C</b>	<b>D-2983</b>	<b>100,000 CPS</b>
<b>Pour Point, °C (°F)</b>	<b>D-97</b>	<b>-36 (-33)</b>

Lucas SAE 80W-90 Gear Oil is a technical blend of oils and additives designed to give longer oil life and longer component life with less power draw. It is formulated with special anti-wear agents and anti-seize agents not found in common gear oils. It contains special lubricity agents for less wear, less heat, less power usage and longer bearing life. We have improved the high speed shock load and significantly improved anti-wear performance, which provides the ultimate protection to the gear components. Lucas SAE 80W-90 Gear Oil is formulated with special "climbing additives." This action is especially important in power dividers and hypoid gears. It resists breakdown from contact with water. It will blend with other gear oils, even synthetics. EXCEEDS ALL GL CLASSIFICATIONS API MT-1, API GL-5, MIL-PRF-2105E, MACK GO-G, PG-2 Limited Slip.

### SAE 85W-140 GEAR OIL

PRODUCT # 10042, 10045, 10061, 10062, 10064, 10313, 10492, 20042, 20045



#### TEST

#### ASTM

#### TYPICAL

<b>API Gravity</b>	<b>D-1298</b>	<b>25.6</b>
<b>Specific Gravity @ 60°F</b>	<b>D-1298</b>	<b>.9007</b>
<b>Density @ 60°F - LBS/US Gal</b>	<b>D-1298</b>	<b>7.500</b>
<b>Viscosity @ 100°C cSt</b>	<b>D-445</b>	<b>28.0</b>
<b>Color</b>		<b>Clear Light Amber</b>
<b>Flash Point, COC °F</b>	<b>D-92</b>	<b>420</b>
<b>Odor</b>		<b>Characteristic Petroleum plus sulphur additives</b>
<b>AGMA Designation</b>		<b>7EP</b>
<b>FZG</b>		<b>12 Stage PASS</b>
<b>Brookfield Viscosity @ -12°C</b>	<b>D-2983</b>	<b>100,000 CPS</b>
<b>Pour Point, °C (°F)</b>	<b>D-97</b>	<b>-33 (-27)</b>

Lucas SAE 85W-140 Gear Oil is a technical blend of oils and additives designed to give longer oil life and longer component life with less power draw. It is formulated with special anti-wear agents and anti-seize agents not found in common gear oils. Lucas SAE 85W-140 Plus Gear Oil contains special lubricity agents for less wear, less heat, less power usage and longer bearing life. We have improved the high speed shock load and significantly improved anti-wear performance which provides the ultimate protection to the gear components. Lucas SAE 85W-140 Plus Gear Oil is ideal for older gear boxes. This formula slows or stops all oil leaks and cushions gears to reduce lash in worn gear sets. It is formulated with special "climbing additives." This action is especially important in power dividers and hypoid gears. Lucas SAE 85W-140 Plus Gear Oil resists breakdown from contact with water. It will blend with other gear oils, even synthetics. EXCEEDS ALL GL CLASSIFICATIONS API MT-1, API GL-5, MIL-PRF-2105E, MACK GO-G, PG-2 Limited Slip.

# SYNTHETIC SAE 75W-90 GEAR OIL

PRODUCT # 10047, 10048, 10072, 10073, 10074, 10491, 10562, 20047, 20048



TEST	ASTM	TYPICAL
API Gravity	D-1298	26.8
Specific Gravity @ 60°F	D-1298	.8939
Density @ 60°F LBS/US Gal	D-1298	7.443
Viscosity @ 40°C cSt	D-445	142.0
Viscosity @ 100°C cSt	D-445	18.4
Flash Point, COC °F	D-92	390
Color		Clear Light Amber
Viscosity Index		145
Pour Point, °C (°F)	D-97	-39 (-38)
FZG		12 Stage PASS
Brookfield Viscosity @ -40°C	D-2983	80,000 CPS

Lucas Synthetic SAE 75W-90 Gear Oil is a pure-synthetic, non-foaming, super slick, long lasting lubricant designed especially for heavy-duty or high performance applications where other gear lubricants just aren't good enough. Contains a special additive package that cushions gears and resists "squeezing out" under extreme pressure situations where other gear lubricants just don't hold up. We have improved the high speed shock load and significantly improved anti-wear performance which provides the ultimate protection to the gear components. Especially designed to stand up to high temperatures without losing its lubricity. Excellent for use in limited slip differentials. EXCEEDS ALL GL CLASSIFICATIONS API MT-1, API GL-5, MIL-PRF-2105E, MACK GO-G, PG-2 Limited Slip.

# SYNTHETIC SAE 75W-140 GEAR OIL TRANS & DIFF LUBE

PRODUCT # 10121, 10122, 10123, 10124, 10139, 10465, 20121, 20122



TEST	ASTM	TYPICAL
API Gravity	D-1298	33.0
Specific Gravity @ 60°F	D-1298	.8628
Density @ 60°F LBS/US Gal	D-1298	7.184
Viscosity @ 40°C cSt	D-445	178
Viscosity @ 100°C cSt	D-445	30
Flash Point, COC °F	D-92	390
Color		Clear Light Amber
Viscosity Index		193
FZG		12 Stage PASS
Brookfield Viscosity @ -40°C	D-2983	100,000 CPS
Pour Point, °C (°F)	D-97	-51 (-60)

Lucas Synthetic SAE 75W-140 Trans & Diff Lube is a pure-synthetic, non-foaming, super-slick, long-lasting lubricant designed especially for heavy duty or high performance applications where other gear lubricants just aren't good enough. Contains a special additive package that cushions gears and resists "squeezing out" under extreme pressure. We have improved the high speed shock load and significantly improved anti-wear performance, which provides the ultimate protection to the gear components. Especially designed to stand up to high temperatures without losing its lubricity. Excellent to quiet whines in noisy differentials. EXCEEDS ALL GL CLASSIFICATIONS API MT-1, API GL-5, MIL-PRF-2105E, MACK GO-G, PG-2 Limited Slip.

# PURE SYNTHETIC 50wt. TRANSMISSION OIL

PRODUCT # 10146, 10147, 10149, 10561, 20146



TEST	ASTM	TYPICAL
API Gravity	D-1298	31.3
Specific Gravity @ 60°F	D-1298	.869
Density @ 60°F LBS/US Gal	D-1298	7.24
Flash Point, PMCC °F	D-93	400
Viscosity @ 40°C, cSt	D-445	126
Viscosity @ 100°C, cSt	D-445	18.2
Appearance	Visual	Clear, pale yellow
Color	D-1500	1.0
Low Temp Brookfield Viscosity (-40°C), cP	D-2893	132,000

Lucas Synthetic 50 wt. Transmission Oil is designed especially for heavy duty truck transmissions, but has been found useful in many other applications. Blended from the finest synthetic base stocks, both API group III and PAO (group IV) and high-performance additives and synthetic polymers. This premium transmission fluid is shear stable and provides excellent anti-wear properties for long service life. Formulated to protect both ferrous (steel alloys) and yellow metals (alloys of copper: brass and bronze). Designated by the traditional mono-grade of SAE 50 under the J300 specification, it also meets the gear oil multi-grade of SAE 75W-90 under J306. Balanced frictional characteristics means that shifting is smooth from start-up, even in cold weather. Meets or exceeds API MT-1, Eaton Transmission Div., 164 revision 7, Mack Truck TO-A Plus, International Truck TMS 6816 and other applications requiring non-EP Lubricants. For the life of your transmission and long fluid life with ease of operation, chose Lucas Synthetic 50 wt. Transmission Oil.

## INDUSTRIAL GEAR OILS ISO 150, 220, 320 GRADES

ISO 150 PRODUCT # 10673

ISO 220 PRODUCT # 10589, 10590

ISO 320 PRODUCT # 10591, 10592

GRADE, ISO	ASTM	150	220	320
API Gravity	D-1298	29.1	28.9	27.8
Specific Gravity @ 60°F	D-1298	0.881	0.882	0.888
Lb / Gallon	D-1298	7.35	7.34	7.41
Viscosity @ 40°C cSt	D-445	150	220	320
Flash Point, COC °F	D-92	490	490	490
Color	D-1500	3.0	3.0	3.0

Lucas Industrial Gear Oils ISO 150, 220, 320 are blended with the highest quality base oils and additives to provide extreme pressure protection, resistance to foam and excellent rust, corrosion and oxidation protection. Non-corrosive to brass, bronze, steel and other copper alloys. Lucas Industrial Gear Oils can be used in chain drives, sprockets, plain and anti-friction bearings, slide guides and flexible couplings. They can be used in manual transmissions, gear canes and worm gears on mobile contractor type equipment. Provides excellent shock loading properties. Lucas Industrial Gear Oils are designed to withstand heavy loads. Meets AGMA (American Gear Manufacturers Association) gear specifications. Recommended for use in bevel, spur, herringbone, planetary, worm and industrial hypoid gears.

# **INDUSTRIAL GEAR OIL**

## **ISO 460**

**PRODUCT # 10806**

<b>TEST</b>	<b>ASTM</b>	<b>TYPICAL</b>
<b>API Gravity</b>	<b>D-1298</b>	<b>27.3</b>
<b>Specific Gravity @ 60°F</b>	<b>D-1298</b>	<b>0.891</b>
<b>Lb / Gallon</b>	<b>D-1298</b>	<b>7.43</b>
<b>Viscosity @ 40°C cSt</b>	<b>D-445</b>	<b>460</b>
<b>Flash Point, COC °F</b>	<b>D-92</b>	<b>490</b>
<b>Color</b>	<b>D-1500</b>	<b>3.0</b>

Lucas Industrial Gear Oil ISO 460 is blended with the highest quality base oils and additives to provide extreme pressure protection, resistance to foam and excellent rust, corrosion and oxidation protection. Non-corrosive to brass, bronze, steel and other copper alloys. Lucas Industrial Gear Oil ISO 460 can be used in chain drives, sprockets, plain and anti-friction bearings, slide guides and flexible couplings. It can be used in manual transmissions, gear canes and worm gears on mobile contractor type equipment. Provides excellent shock loading properties. Lucas Industrial Gear Oil is designed to withstand heavy loads. Meets AGMA (American Gear Manufacturers Association) gear specifications. Recommended for use in bevel, spur, herringbone, planetary, worm and industrial hypoid gears.

# **INDUSTRIAL GEAR OIL**

## **ISO 680**

**PRODUCT # 10496, 10501, 10509**



<b>TEST</b>	<b>ASTM</b>	<b>TYPICAL</b>
<b>API Gravity</b>	<b>D-1298</b>	<b>27.49</b>
<b>Specific Gravity @ 60°F</b>	<b>D-1298</b>	<b>0.890</b>
<b>Lb / Gallon</b>	<b>D-1298</b>	<b>7.41</b>
<b>Viscosity @ 40°C cSt</b>	<b>D-445</b>	<b>680</b>
<b>Flash Point, COC °F</b>	<b>D-92</b>	<b>510</b>
<b>Color</b>	<b>D-1500</b>	<b>5.0</b>

Lucas Industrial Gear Oil ISO 680 is blended with the highest quality base oils and additives to provide extreme pressure protection, resistance to foam and excellent rust, corrosion and oxidation protection. Non-corrosive to brass, bronze, steel and other copper alloys. Lucas Industrial Gear Oil can be used in chain drives, sprockets, plain and anti-friction bearings, slide guides and flexible couplings. It can be used in manual transmissions, gear canes and worm gears on mobile contractor type equipment. Provides excellent shock loading properties. Lucas Industrial Gear Oil is designed to withstand heavy loads. Meets AGMA (American Gear Manufacturers Association) gear specifications. Recommended for use in bevel, spur, herringbone, planetary, worm and industrial hypoid gears.

# TRANSMISSION OILS

## “SURE-SHIFT” SEMI-SYNTHETIC AUTOMATIC TRANSMISSION FLUID

PRODUCT # 10052, 10055, 10166, 10167, 10168, 20052



TEST	ASTM	TYPICAL
API Gravity	D-1298	30.1
Specific Gravity @ 60°F	D-1298	.8756
Density @ 60°F	D-1298	7.291
Viscosity @ 40°C cSt	D-445	40.0
Viscosity @ 100°C cSt	D-445	8.0
Viscosity Index		178
Flash Point, COC °F	D-92	375
Rust		Pass
Foam	D-892	Pass
Brookfield Viscosity @ -40°C, CPS	D-2983	20,000 Max

Lucas Sure-Shift Semi-Synthetic Automatic Transmission Fluid is a blend of high quality base stocks and synthetics, blended together with a special additive package not found in other automatic transmission fluids. It's designed to withstand high temperatures and high pressures without thinning or foaming. It's formulated with extra detergents and anti-wear agents for longer fluid life and less component wear. It also contains lubricity agents for smooth, precise shifting. Lucas Sure-Shift ATF is a must for all hard working and high performance transmissions. Not recommended in CVT and transmissions requiring Ford Type F. Meets Allison C-3, C-4, Caterpillar TO-2.

## SEMI-SYNTHETIC MULTI-VEHICLE AUTOMATIC TRANSMISSION FLUID

PRODUCT # 10418, 10422, 10423, 10424, 10464, 20418, 20421



TEST	ASTM	TYPICAL
API Gravity	D-1298	38.3
Specific Gravity @ 60°F	D-1298	0.862
Density @ 60°F	D-1298	7.19
Viscosity @ 40°C cSt	D-445	38.3
Viscosity @ 100°C cSt	D-445	7.3
Viscosity Index		159
Flash Point, COC °F	D-92	427
Rust		Pass
Foam	D-892	Pass
Brookfield Viscosity @ -40°C, CPS	D-2983	11,500

Lucas Multi-Vehicle Automatic Transmission Fluid is blended with a balanced additive package and the highest quality synthetic and conventional base oils to provide today's transmissions with excellent oxidation stability, foam resistance, rust and corrosion inhibition properties, wear protection and heat resistance. This multi-vehicle ATF provides smooth shifting and eliminates chatter. Lucas ATF is recommended for use in both new and older vehicles including Japanese and European transmissions. It is compatible with synthetic and conventional fluids and has outstanding seal compatibility. Lucas Multi-Vehicle Automatic Transmission Fluid meets or exceeds Ford MERCON® V, Allison C-4, JASO 1-A, Voith H55.6335, Voith 55.6336, ZF TE-ML 14A, MAN 393 Z1, Z2, Z3 V1, V2, F, MB 236.9, Esso LT 71141, GM Dexron®, Dexron® II, Dexron® III H, Chrysler ATF +3, Chrysler ATF +4, BMW LT 71141, BMW LA2634, Audi G-052-162-A1, Audi G 052 025-A2, MERCON®, Kia SP-II, Kia SP-III, JWS 3309, Idemitsu K17, Hyundai SP-II, Hyundai SP-III, Honda Z-1, Mazda ATF-MV, Mazda ATF-M III, MB 236.1, 236.2, 236.5, 236.6, 236.7, 236.10, Subaru, Nissan Matic-K, Nissan Matic-J, Nissan Matic-D, Mitsubishi Diamond SP-II, Mitsubishi Diamond SP-III, Toyota T-III, Toyota T-IV, VW G-052-162-A1, VW G-052-025-A2, ZF TE-ML 03D, TE-ML 17C, TE-ML 16L, TE-ML 14C, TE-ML 14B, TE-ML 14A, Volvo 97340. Lucas Multi-Vehicle ATF is also recommended for use in all power steering applications with the exception of Honda. Lucas Multi-Vehicle ATF is not recommended for use in CVT, Ford Type F, MB 236.12, GM Dexron® VI, MERCON® SP and MERCON® LV.

# **FULL SYNTHETIC MULTI-VEHICLE AUTOMATIC TRANSMISSION FLUID TES-295**

**PRODUCT # 10658, 10659**

<b>TEST</b>	<b>ASTM</b>	<b>TYPICAL</b>
<b>API Gravity</b>	<b>D-1298</b>	<b>35.5</b>
<b>Specific Gravity @ 60°F</b>	<b>D-1298</b>	<b>0.847</b>
<b>Density @ 60°F</b>	<b>D-1298</b>	<b>7.06</b>
<b>Viscosity @ 100°C cSt</b>	<b>D-445</b>	<b>7.3</b>
<b>Flash Point, COC °F</b>	<b>D-92</b>	<b>428</b>
<b>Rust</b>		<b>Pass</b>
<b>Foam</b>	<b>D-892</b>	<b>Pass</b>
<b>Brookfield Viscosity @ -40°C, CPS</b>	<b>D-2983</b>	<b>7,000</b>
<b>Color</b>		<b>Red</b>
<b>Pour Point, °C (°F)</b>	<b>D-97</b>	<b>-57 (-71)</b>

Lucas Full Synthetic Multi-Vehicle Automatic Transmission Fluid is blended with a balanced additive package and the highest quality synthetic base oils to provide today's transmissions with excellent oxidation stability, foam resistance, rust and corrosion inhibition properties, wear protection and heat resistance. This multi-vehicle ATF provides smooth shifting and eliminates chatter. Lucas ATF is recommended for use in both new and older vehicles including Japanese and European transmissions. It is compatible with synthetic and conventional fluids and has outstanding seal compatibility. Recommended for use in high performance trucks, buses, utility vehicles, haulers and recreational vehicles. Lucas Full Synthetic Multi-Vehicle Automatic Transmission Fluid meets or exceeds Ford MERCON® V, Allison C-4, Allison TES-295, JASO 1-A, Voith H55.6335, Voith 55.6336, ZF TE-ML 14A, MAN 393 Z1, Z2, Z3 V1, V2, F, MB 236.9, Esso LT 71141, GM Dexron®, Dexron® II, Dexron® III H, Chrysler ATF +3, Chrysler ATF +4, BMW LT 71141, BMW LA2634, Audi G-052-162-A1, Audi G 052 025-A2, MERCON®, Kia SP-II, Kia SP-III, JWS 3309, Idemitsu K17, Hyundai SP-II, Hyundai SP-III, Honda Z-1, Mazda ATF-MV, Mazda ATF-M III, MB 236.1, 236.2, 236.5, 236.6, 236.7, 236.10, Subaru, Nissan Matic-K, Nissan Matic-J, Nissan Matic-D, Mitsubishi Diamond SP-II, Mitsubishi Diamond SP-III, Toyota T-III, Toyota T-IV, VW G-052-162-A1, VW G-052-025-A2, ZF TE-ML 03D, TE-ML 17C, TE-ML 16L, TE-ML 14C, TE-ML 14B, TE-ML 14A, Volvo 97340. Lucas Full Synthetic Multi-Vehicle ATF is also recommended for use in all power steering applications with the exception of Honda. Lucas Multi-Vehicle ATF is not recommended for use in CVT, Ford Type F, MB 236.12, GM Dexron® VI, MERCON® SP and MERCON® LV.

## **AUTOMATIC TRANSMISSION FLUID CONDITIONER**

**PRODUCT # 10441, 20441**



<b>TEST</b>	<b>ASTM</b>	<b>TYPICAL</b>
<b>Specific Gravity @ 60°F</b>	<b>D-1298</b>	<b>0.856</b>
<b>Density @ 60°F LBS/US Gal</b>	<b>D-1298</b>	<b>7.13</b>
<b>Flash Point, COC °F</b>	<b>D-92</b>	<b>450</b>
<b>Viscosity @ 40°C cSt</b>	<b>D-445</b>	<b>76.5</b>
<b>Viscosity @ 100°C cSt</b>	<b>D-445</b>	<b>12.6</b>
<b>Viscosity Index</b>	<b>D-2270</b>	<b>166</b>
<b>Color</b>	<b>Visual</b>	<b>Red</b>
<b>Brookfield Viscosity @ -40°C, cps</b>	<b>D-2983</b>	<b>20,000 Max</b>

Lucas Automatic Transmission Fluid Conditioner is formulated with the highest quality synthetic base oils and additives to help prevent minor leaks and promote smoother shifting. Our unique chemistry prolongs fluid life, improves fluid shear stability and improves fluid oxidation to minimize sludge and varnish formation. It reduces parts wear and extends equipment life; it also reduces noise and shudder. Lucas ATF Conditioner contains an effective foam inhibitor and conditions seals to minimize or stop small leaks. It maintains cold temperature properties and improves shifting performance. Designed for use in both new and older vehicles. Compatible with commercial and synthetic ATF fluids. Do not use in Ford Type F and CVT.

# SYNTHETIC MULTI-VEHICLE CVT FLUID

PRODUCT # 10111, 10112, 10113, 20111, 20112



TEST	ASTM	TYPICAL
API Gravity	D-1298	35.1
Specific Gravity @ 60°F	D-1298	0.849
Density @ 60°F	D-1298	7.07
Viscosity @ 100°C cSt	D-445	7.0
Brookfield Viscosity @ -40°C, CPS	D-2983	9,558
Color		Amber

Lucas Synthetic Multi-Vehicle CVT Fluid is a premium, full synthetic transmission fluid specifically designed for use in passenger cars with steel belt-driven or chain continuously variable transmissions. Lucas CVT Fluid guards against wear & corrosion. It resists shear thinning better than typical CVT fluids. Lucas CVT fluid provides superior cooling and excellent low-temperature fluidity for smoother operation in cold weather. Its balanced coefficient of friction to insure good adhesion between CVT belt and pulleys – no slippage. Protects against sludge and varnish formation. Excellent oxidation resistance and thermal stability. It has a low coefficient of friction between steel and clutch material to eliminate shudder. It has been specifically engineered to have the unique frictional properties required for use in this type transmission.

Lucas Synthetic Multi-Vehicle CVT Fluid is suitable for use in:

BMW/Mini Cooper EZL 799A (Punch), Dodge/Jeep Mopar CVTF+4, Ford M2C928-A (CFT 23), GM DEX-CVT, GM CVT, Hyundai/Kia SP-CVT 1, Honda HMMF, HCF-2, Mazda CVTF 3320, Mercedes Benz MB-Approval 236.20, Mitsubishi DiaQueen CVTF J1, DiaQueen CVTF J4, Nissan NS-1, NS-2, NS-3, Subaru E-CVT, Suzuki CVTF Fluid Green 1 (Shell Green 1V), CVTF Fluid Green 2, CVTF 3320, Toyota/Lexus TC, FE, WS (Prius eCVT only), Audi/VW TL 052 180, TL 052 516, Ford WSS-M2C933-A (CFT 30), Mercon C (CFT 30), Subaru Lineartronic CV-30, Lineartronic CVTF II, High Torque CVTF, Low Viscosity CVTF.

## SAE 15W-40 MAGNUM HIGH TBN LONG TRAIN TRUCK OIL

PRODUCT # 10075, 10076, 10077, 10078, 10138, 10175,  
10126, 10352, 20075, 20076

Meets or exceeds API CI-4, CH-4, CG-4, CF-4, CF/SL



TEST	ASTM	TYPICAL
API Gravity		27.0
Specific Gravity @ 60°F	D-1298	.8927
Density @ 60°F LBS/US Gal	D-1298	7.434
Viscosity @ 40°C cSt	D-445	130.0
Viscosity @ 100°C cSt	D-445	16.0
Viscosity Index	D-2270	131
Total Base Number		13.0
Flash Point, COC °F	D-92	435
Pour Point, °C	D-97	-22
Zinc - Wt %		.14
Sulfated Ash		1.58
Color		Amber

Lucas High TBN SAE 15W-40 Truck Oil is a blend of high quality base oils and an additive package that allows extended drain intervals and a much higher degree of protection from metal to metal contact. This product is excellent for gasoline engines.

The user can expect the following:

1. **EXTENDED DRAIN INTERVALS--UP TO TWICE AS LONG.** After 20,000 miles, sample oil every 5,000 miles to determine maximum oil life for each particular engine.
2. **ELIMINATION OF DRY STARTS.** The exclusive additive package ensures a protective film on parts at all times.
3. **LOWER OPERATING TEMPERATURES.** Normal oil temperature will be lower but more importantly, the additive film in Lucas SAE 15W-40 will not rupture in an over-heating situation.
4. **EXTENDED PROTECTION FROM FUEL DILUTION.** The additive package is more resistant to break down from the solvents in diesel fuel than common additive packages found in regular 15W-40 blends.
5. **HIGH DETERGENT ACTION.** Motor oil is usually changed because it is contaminated with combustion by products, not because it's worn out. The high detergent action of Lucas SAE 15W-40 allows up to twice as much contamination to be held in suspension and still have good lubrication qualities.
6. **A HIGHER DEGREE OF LUBRICITY.** The slicker the oil, the easier the engine starts and the easier it runs.
7. **HIGHER OIL PRESSURE.** This means more protection and more cooling.
8. **LESS OIL CONSUMPTION.** The low volatility of Lucas SAE 15W-40 Truck Oil makes it harder to burn. The thicker oil film makes it harder for the oil to get past the rings to the combustion chamber.
9. **MORE PROTECTION FOR OLDER ENGINES.** Common engine oils are formulated for the tolerances of new engines only. The extra additives coat the parts with a heavy film that compensates for the extra space between the moving parts in older engines.
10. **EXTENDED PROTECTION FROM OXIDATION.** Oxidation is the subtle killer that often finishes off worn engines. Lucas controls this in three ways: (1) It coats the cylinder walls to slow oil burning (2) Also slows the rate of blow-by, and (3) The extra detergent additives keep the combustion acids separated much longer.
11. **QUIETER, SMOOTHER OPERATION.** By providing extra cushion to the moving parts a degree of "knock" is eliminated. This factor can be greatly appreciated by operators of cars and small trucks with diesel engines.

# SAE 15W-40 MAGNUM CK-4 LONG DRAIN HD MOTOR OIL

PRODUCT # 10286, 10287, 20287



TEST	ASTM	TYPICAL
API Gravity	D-1298	31.5
Specific Gravity @ 60°F	D-1298	0.864
Density @ 60°F, Lbs./US Gal	D-1298	7.20
Flash Point, PMCC °F	D-93	465
Viscosity @ 40°C cSt	D-445	112
Viscosity @ 100°C cSt	D-445	15.5
Viscosity Index	D-2270	146
Cold Cranking Simulator @ 20°C, cP	D-5293	4,237
TBN	D-2896	10.0
Color	Visual	Amber

Lucas SAE 15W-40 Magnum CK-4 is a premium Heavy Duty Motor Oil blended with high quality API Group II and Group III base oils and a cutting-edge additive package providing the robust performance required by modern diesel engines. Much improved oxidation resistance means this oil lasts longer and protects engines better than previous heavy duty motor oils. Lucas SAE 15W-40 Magnum CK-4 is fully backward compatible with previous standards CJ-4 and CI-4; specially formulated for modern Ultra-Low Sulfur Diesel Fuel and engines equipped with Diesel Particulate Filters (DPF) and utilizing Diesel Exhaust Fluid (DEF) to control particulates and nitrous oxides. Lucas SAE 15W-40 Magnum CK-4 provides excellent soot control and TBN retention as well as shear stability. This traditional heavy duty diesel engine oil viscosity grade is especially well suited for higher mileage engines or for mixed fleets where older and newer vehicles can all use the same motor oil. Recommended for all engines specifying SAE 15W-40 heavy duty oil, CK-4 and previous, including: CJ-4, CI-4+, CI-4, CH-4, CG-4 SN and SM and European and OEM specifications: ACEA 9, Mack, Volvo, Caterpillar, Cummins, Detroit Diesel, Daimler, MAN, Renault and Ford.

# SAE 10W-30 SYNTHETIC BLEND CK-4 LONG DRAIN HD MOTOR OIL

PRODUCT # 10281, 10282, 20282



TEST	ASTM	TYPICAL
API Gravity	D-1298	32.1
Specific Gravity @ 60°F	D-1298	0.861
Density @ 60°F, Lbs./US Gal	D-1298	7.18
Flash Point, PMCC °F	D-93	455
Viscosity @ 40°C cSt	D-445	80.0
Viscosity @ 100°C cSt	D-445	12.1
Viscosity Index	D-2270	146
Cold Cranking Simulator @ 25°C, cP	D-5293	5,284
TBN	D-2896	10.0
Color	Visual	Amber

Lucas SAE 10W-30 Synthetic Blend CK-4 is a premium Heavy Duty Motor Oil blended with high quality API Group II and Group III base oils and a cutting-edge additive package providing the robust performance required by modern diesel engines while assuring good fuel economy. Much improved oxidation resistance means this oil lasts longer and protects engines better than previous heavy duty motor oils. Lucas SAE 10W-30 Synthetic Blend CK-4 is fully backward compatible with previous standards CJ-4 and CI-4; specially formulated for modern Ultra-Low Sulfur Diesel Fuel and engines equipped with Diesel Particulate Filters (DPF) and utilizing Diesel Exhaust Fluid (DEF) to control particulates and nitrous oxides. It provides excellent soot control and TBN retention as well as shear stability. The 10W-30 viscosity grade is recommended by most OEMs on recent model years. Lower in viscosity than traditional 15W-40 to improve fuel economy, yet still providing strong film strength and good boundary lubrication to protect vital engine components. May be used safely as a fuel saving alternative to CJ-4 SAE 15W-40. Recommended for all engines specifying SAE 10W-30 heavy duty oil, CK-4 and previous, including: CJ-4, CI-4+, CI-4, CH-4, CG-4 and European and OEM specifications: ACEA 9, Mack, Volvo, Caterpillar, Cummins, Detroit Diesel, Daimler, MAN, Renault and Ford.

# SYNTHETIC SAE 15W-40 MAGNUM CJ-4

PRODUCT # 10298, 10299, 10317, 10319, 10329, 20299

Meets or exceeds CJ-4/CI-4 Plus, CI-4, CF/SM, ACEA E7



TEST	ASTM	TYPICAL
API Gravity	D-1298	31.5
Specific Gravity @ 60°F	D-1298	.8681
Density @ 60°F LBS/US Gal	D-1298	7.228
Viscosity @ 40°C cSt	D-445	83.1
Viscosity @ 100°C cSt	D-445	15.23
Viscosity Index	D-2270	195
Color		Amber
Flash Point, COC °F	D-92	474
Pour Point °C	D-97	-36
CCS @ -20°C, CPS		2100
TBN, mgKOH/g	D-2896	10.0

Lucas Oil SAE 15W-40 Magnum Synthetic CJ-4 Long Drain Truck Oil is blended with premium synthetic base oils and "Lucas" additives that help maintain the life of the emission control system as required for regulatory compliance. You can expect less oil consumption and reduced engine wear. It resists oxidation and thermal breakdown for total protection in new and older engines. Provides increased lubricity, lowers oil temperature, reduces engine noise, increases oil pressure, and reduces soot levels. Suitable for use in gasoline and diesel powered engines. Lasts up to twice as long as ordinary 15W-40 engine oils. Lucas Oil SAE 15W-40 Magnum Synthetic CJ-4 Long Drain Truck Oil is backward compatible with all old and new engines using Ultra Low Sulfur Diesel. Lucas Oil CJ-4 is compatible with all after treatment devices and keeps EGR engines clean. Recommended for use in all 2007 compliant engines specifying CJ-4/CI-4 Plus/CI-4/CH-4/CG-4/CF-4/SM & European and OEM claims. Meets or exceeds Mack EO-O Premium Plus '07, Cummins CES 20081, Caterpillar ECF-3 & ECF1, DCC PG0S 93 K218, Volvo VDS-4, Navistar DHD-1, JASO DH-2, ACEA E7, and MAN 3275.

# SYNTHETIC SAE 5W-40 MAGNUM CJ-4

PRODUCT # 10436, 10437, 10439, 10440, 10435, 20436

Meets or exceeds CJ-4/CI-4 Plus, CI-4, CF/SM, ACEA E7



TEST	ASTM	TYPICAL
API Gravity	D-1298	32.6
Specific Gravity @ 60°F	D-1298	0.862
Density @ 60°F LBS/US Gal	D-1298	7.19
Viscosity @ 40°C cSt	D-445	102.2
Viscosity @ 100°C cSt	D-445	15.0
Viscosity Index	D-2270	154
Color		Amber
Flash Point, COC °F	D-92	475
Pour Point °C	D-97	-40
MRV @ -35°C, CPS	D-4684	20,000
CCS @ -30°C, CPS		4200
TBN, mgKOH/g	D-2896	10.0
Sulfur, Wt %	X-Ray	0.38
Sulfated Ash, Wt %	D-874	0.99
Phosphorus, Wt %	ICP	.11
Zinc, Wt %	ICP	0.13

Lucas Oil SAE 5W-40 Synthetic CJ-4 Truck Oil is designed for extreme cold weather applications but has all the protection and longevity of our SAE 15w-40 Synthetic CJ-4 Truck Oil. It is blended with premium synthetic base oils and "Lucas" additives that help maintain the life of the emission control system as required for regulatory compliance. You can expect less oil consumption and reduced engine wear. It resists oxidation and thermal breakdown for total protection in new and older engines. It provides increased lubricity, lowers oil temperature, reduces engine noise, increases oil pressure, and reduces soot levels. It is designed for diesels but it's perfectly suitable for gasoline engines. Lasts up to twice as long as ordinary 5W-40 engine oils. Lucas Oil SAE 5W-40 Synthetic CJ-4 Oil is designed with a Lucas High TBN additive package that make it backward compatible with all old as well as new engines using Ultra Low Sulfur Diesel. It is compatible with all after treatment devices and keeps EGR engines clean. Recommended for use in all 2007 compliant engines specifying CJ-4/CI-4 Plus/CI-4/CH-4/CG-4/CF-4/SM & European and OEM claims. Meets or exceeds Mack EO-O Premium Plus '07, Cummins CES 20081, 47 Caterpillar ECF-3 & ECF1, DCC PG0S 93 K218, Volvo VDS-4, Navistar DHD-1, JASO DH-2, ACEA E7, and MAN 3275. API LICENSED.

# SYNTHETIC SAE 10W-30 CJ-4/SL

PRODUCT # 10570, 10571, 10572, 10573

Meets or exceeds CJ-4/CI-4 Plus, CI-4, CF/SL, ACEA E7



TEST	ASTM	TYPICAL
API Gravity	D-1298	33.6
Specific Gravity @ 60°F	D-1298	.857
Density @ 60°F LBS/US Gal	D-1298	7.14
Viscosity @ 40°C cSt	D-445	77.9
Viscosity @ 100°C cSt	D-445	11.9
Viscosity Index	D-2270	150
Color		Amber
Flash Point, COC °F	D-92	410
Pour Point °C	D-97	-24
CCS @ -25°C, CPS	D-5293	3849
TBN, mgKOH/g	D-2896	10.0

Lucas Synthetic SAE 10W-30 CJ-4 is blended with premium base oils and "Lucas" additives that help maintain the life of the emission control system as required for regulatory compliance. You can expect less oil consumption and reduced engine wear. It resists oxidation and thermal breakdown for total protection in new and older engines. Provides increased lubricity, lowers oil temperature, reduces engine noise, increases oil pressure, and reduces soot levels. Suitable for use in gasoline and diesel powered engines. Lucas Synthetic SAE 10W-30 CJ-4 is backward compatible with all old and new engines using Ultra Low Sulfur Diesel. Lucas Oil CJ-4 is compatible with all after treatment devices and keeps EGR engines clean. Recommended for use in all 2007 compliant engines specifying CJ-4/CI-4 Plus/CI-4/CH-4/CG-4/CF-4/SL & European and OEM claims. Meets or exceeds Mack EO-O Premium Plus '07, Cummins CES 20081, Caterpillar ECF-3 & ECF1, DCC PG0S 93 K218, Volvo VDS-4, Navistar DHD-1, JASO DH-2, ACEA E7, and MAN 3275.

# LOW ASH NATURAL GAS ENGINE OIL (SAE 40)

PRODUCT # 10468, 10815

TEST	ASTM	TYPICAL
Appearance	Visual	Bright & Clear
Color	D-1500	Amber
API Gravity	D-1298	28.3
Specific Gravity	D-1298	.885
Pounds per Gallon	D-1298	7.38
Flash Point, COC °F	D-92	420
Viscosity @ 40°C, cSt	D-445	151.9
Viscosity @ 100°C, cSt	D-445	15.2
Viscosity Index	D-2270	101
Sulfated Ash, wt%	D-874	0.5 Max
Foam Seq I, II	D-892	20/0
Calcium, wt%	X-Ray	0.12
Zinc, wt%	X-Ray	0.03

Lucas Low Ash SAE 40 Natural Gas Engine Oil is designed for use in most to all two-cycle and four-cycle natural gas engines presently in use today. Lucas Low Ash Natural Gas Engine Oil is formulated with only the highest quality base oils to minimize the formation of carbon deposits in rings, combustion chambers and ports. Lucas GEO 40 is heavily fortified with effective oxidation inhibitors and anti-wear/anti-scuff to minimize viscosity increase and protect highly loaded engine parts from wear. High TBN retention helps reduce the formation of lacquers and varnish and provides excellent corrosion protection. Lucas Low Ash SAE 40 Natural Gas Engine Oil is recommended for the following applications:

- Stationary natural gas reciprocating engines (drive compressors, pumps, generators)
- Stationary natural gas and sewer gas engines
- International Harvester natural gas engines (farm and industrial equipment)
- Recommended for mobile CNG and LNG trucks and buses
- Meets performance requirements of Caterpillar, Clark, Climax, Cummins, Cooper-Bessemer, Fairbanks-Morse, Roline and most other natural gas engines, Class I, Class II and Class III Ingersol-Rand natural gas engines, Waukesha Class A and White-Superior naturally aspirated engines

## SAE 5W-20

PRODUCT # 10516, 10517, 10518, 10642, 20832

API SN PLUS/SN/SM, ILSAC GF-5, ACEA A1-12, A5-12



TEST	ASTM	TYPICAL
API Gravity	D-1298	32.2
Specific Gravity @ 60°F	D-1298	.864
Density @ 60°F LBS/US Gal	D-1298	7.205
Viscosity @ 40°C	D-445	47.9
Viscosity @ 100°C	D-445	8
Viscosity Index	D-2270	149
Color		Clear Brown
Flash Point, COC °F	D-92	440

Lucas SAE 5W-20 is a formulation of high quality base stocks and an exclusive high performance additive package. It's the ideal on track/off track lubricant that ensures minimum drag, maximum protection from wear, maximum fuel mileage and easier cold weather starting. Lucas SAE 5W-20 is the perfect lubricant for the high temperatures of turbo charged engines. It blends with other motor oils, synthetic or petroleum. Expect more miles/kilometers between overhauls and lower oil temperatures. Lucas SAE 5W-20 has been used extensively and proven excellent for kart engines. It far outlasts conventional oils. Designed for use in gasoline engines only. Exceeds American and European OEM specifications. Exceeds performance levels of API SN PLUS/SN/SM, ILSAC GF-5, ACEA A1-12, A5-12.

## SAE 5W-30

PRODUCT # 10474, 10475, 10477, 10479, 10482, 20474, 20475

API SN PLUS/SN/SM, ILSAC GF-5, ACEA A1-12, A5-12



TEST	ASTM	TYPICAL
API Gravity	D-1298	32.3
Specific Gravity @ 60°F	D-1298	.863
Density @ 60°F LBS/US Gal	D-1298	7.15
Viscosity @ 40°C cSt	D-445	60.9
Viscosity @ 100°C cSt	D-445	11.0
Viscosity Index	D-2270	152
Color		Light Brown
Flash Point, COC °F	D-92	460
Pour Point, °C	D-97	-36
CCS @ -30°C, CPS	D-5293	6,600 Max
MRV TP-1 @ -35°C, CPS	D-4684	60,000 Max
P, Wt %	ICP	0.08 Max
Z, Wt %	ICP	0.08 Typ

Lucas SAE 5W-30 is a formulation of high quality base stocks and an exclusive high performance additive package. It's an ideal on track/off track lubricant that ensures minimum drag for maximum fuel mileage, and easy cold weather starting. The user can expect maximum protection from wear even with extended drain intervals. The exclusive additive package in Lucas SAE 5W-30 ensures extra protection and longer oil life in turbo charged engines. The user can expect more miles/kilometers between overhauls and lower oil temperatures. Designed for use in gasoline engines only. Exceeds American and European OEM specifications. Exceeds performance levels of API SN PLUS/SN/SM, ILSAC GF-5, ACEA A1-12, A5-12.

# SAE 10W-30

PRODUCT # 10276, 10338, 10340, 10217, 10644, 20276, 20340  
API SN PLUS/SN/SM, ILSAC GF-5, ACEA A1-12, A5-12



TEST	ASTM	TYPICAL
API Gravity	D-1298	31.6
Specific Gravity @ 60°F	D-1298	.867
Density @ 60°F LBS/US Gal	D-1298	7.21
Viscosity @ 40°C, cSt	D-445	75.0
Viscosity @ 100°C, cSt	D-445	10.9
Viscosity Index	D-2270	148
Color		Light Brown
Flash Point, COC °F	D-92	455
Pour Point, °C	D-97	-36
CCS @ -25°C, CPS	D-5293	4,230
MRV TP-1 @ -30°C, CPS	D-4684	60,000 Max
P, Wt %	ICP	0.08 Max
Z, Wt %	ICP	0.08 Typical

This excellent product provides the consistent viscosity needed for peak performance. Lucas SAE 10W-30 is a formulation of only the finest light base oils plus an exclusive additive package that includes lubricity agents and anti-seize agents that control drag like a zero weight oil and protect like a heavy multi-viscosity oil. Lucas SAE 10W-30 is the perfect lubricant for extreme low temperatures or extreme high temperatures and blends with synthetic or regular motor oil. Designed for use in gasoline engines only. Meets or exceeds all manufacturers specifications for SAE 10W-30 and API SN PLUS/SN/SM, ILSAC GF-5, ACEA A1-12, A5-12.

# SAE 10W-40

PRODUCT # 10275, 10523, 10519, 10859, 20275  
API SN PLUS/SN/SM



TEST	ASTM	TYPICAL
API Gravity	D-1298	30.9
Specific Gravity @ 60°F	D-1298	.871
Density @ 60°F LBS/US Gal	D-1298	7.26
Viscosity @ 40°C	D-445	94
Viscosity @ 100°C	D-445	15.0
Viscosity Index	D-2270	153
Flash Point, COC °F	D-92	410
Color		Amber
CCS @ -25°C, CPS	D-5293	7,000 Max
MRV TP1 @ -30°C, CPS	D-4684	60,000 Max
P, WT %	ICP	0.08 Max
Z, WT %	ICP	0.08 Typ

Lucas SAE 10W-40 is a blend of high quality base stocks and an exclusive high performance additive package that ensures minimum drag, extended engine life, longer oil life and easy cold weather starting. Designed to use in gasoline engines only. The exclusive additive package in Lucas SAE 10W-40 allows for extended drain periods. Lucas SAE 10W-40 is excellent for use in turbo charged engines. The user can expect longer oil life and lower oil temperature. Meets or exceeds all manufacturers specifications for API SN PLUS/SN/SM.

# SAE 20W-50

PRODUCT # 10252, 10255, 10256, 10257, 10259, 10260, 20252  
API SN PLUS/SN/SM



TEST	ASTM	TYPICAL
API Gravity	D-1298	30.0
Specific Gravity @ 60°F	D-1298	.876
Density @ 60°F LBS/US Gal	D-1298	7.30
Viscosity @ 40°C cSt	D-445	125.90
Viscosity @ 100°C cSt	D-445	18
Flash Point, COC °F	D-92	425
Color		Amber
Viscosity Index	D-2270	160
CCS @ -15°C, CPS	D-5293	9,500 Max
MRV TP1 @ -20°C, CPS	D-4684	60,000 Max
P, Wt. %	ICP	0.08 Max
Z, Wt. %	ICP	0.08 Typ.
TBN, Mg KOH/g	D-2896	7.5

Lucas SAE 20W-50 is a high performance oil designed to meet new car warranty requirements. Formulated with unique Lucas Oil additives, lubricity and anti-seize agents to meet demands of small displacement high RPM engines found in today's domestic and foreign market. Certified with API and meets or exceeds SN PLUS service categories. Lucas SAE 20W-50 is the perfect lubricant for low temperature or extreme high temperature and is compatible with both synthetic and conventional motor oils. Designed for use in gasoline engines only. Exceeds American AND European OEM Specifications. Exceeds performance levels of API SN PLUS/SN/SM.

# SAE 30

PRODUCT # 10053, 10280, 10220, 10556



TEST	ASTM	TYPICAL
API Gravity	D-1298	27.9
Specific Gravity @ 60°F	D-1298	.8877
Density @ 60°F LBS/US Gal	D-1298	7.392
Viscosity @ 40°C cSt	D-445	94
Viscosity @ 100°C cSt	D-445	11.0
VI		103
Flash Point, COC °F	D-92	465
Color		Amber

Lucas SAE 30 Plus is a blend of high quality base stocks and an exclusive additive package that sets it far apart from other 30 wt. oils. Lucas SAE 30 Plus is designed to lower oil temperature and slow oil consumption. Lucas 30 Plus extends the life of engines in race cars, lawn equipment, farm equipment or any other situation where a superior 30 wt. oil is needed. Excellent for use in light duty manual transmissions and hydrostat transmissions. Meets or exceeds all manufacturers specifications. Exceeds American and European OEM specifications, exceeds performance levels of API SM/SL/SJ/CF, ACEA A3-98, B3-98, B4-98, VW 500/502/505, Daimler Chrysler 229.1 and BMW Longlife Oil.

# NON DETERGENT SAE 40 ENGINE OIL

PRODUCT # 10594, 10595, 10596, 10663

TEST	ASTM	TYPICAL
Appearance	Visual	Bright & Clear
Color	D-1500	4
API Gravity	D-1298	29.1
Specific Gravity	D-1298	0.881
Pounds per Gallon	D-1298	7.34
Flash Point, °F	D-92	460
Viscosity @ 100°C	D-445	14.4
Zinc, Wt %	X-Ray	0.010

Lucas Non Detergent SAE 40 engine oil is formulated with the highest quality paraffinic base oils on the market today as well as a very mild EP agent and foam inhibitor. We recommend it for use in pre-1964 cars and vehicles. Recommended for use in gear sets, and manual transmissions were non-detergent oils are called out for.

# SEMI-SYNTHETIC SAE 10W-40

PRODUCT # 10176, 10218, 10221, 11011, 20176

API Service SM/SL/SJ/CF



TEST	ASTM	TYPICAL
API Gravity	D-1298	32.1
Specific Gravity @ 60°F	D-1298	.8649
Density @ 60°F LBS/US Gal	D-1298	7.202
Viscosity @ 40°C cSt	D-445	97
Viscosity @ 100°C cSt	D-445	15.0
VI		163
Flash Point, COC °F	D-92	410
Color		Amber
Zinc, Wt. %		.12

Lucas Semi Synthetic SAE 10W-40 is a blend of high quality base stocks and an exclusive high performance additive package that ensures minimum drag, extended engine life, longer oil life and easy cold weather starting. Designed for use in both gasoline and automotive diesel engines. The exclusive additive package in Lucas Semi Synthetic SAE 10W-40 allows for extended drain periods. Lucas Semi Synthetic SAE 10W-40 is excellent for use in turbo charged engines. The user can expect longer oil life and lower oil temperature. Meets or exceeds all manufacturers specifications for A3/B3/B4 and API SM/SL/SJ/CF. Exceeds VW 502/505/500 and Ford WSS M2 C 917 A.

# SYNTHETIC SAE 0W-20

PRODUCT # 10564, 10566, 10567, 10568, 20564

API SN PLUS/SN/SM, ILSAC GF-5, ACEA A1-12, A5-12



TEST	ASTM	TYPICAL
API Gravity	D-1298	35.3
Specific Gravity @ 60°F	D-1298	0.848
Density @ 60°F LBS/US Gal	D-1298	7.06
Viscosity @ 40°C, cSt	D-445	41.0
Viscosity @ 100°C, cSt	D-445	7.5
Viscosity Index	D-2270	180
Color	D-1500	2.5
Flash Point, COC °F	D-92	430
CCS @ -35°C, CPS	D-5293	5,600
MRV TP-1 @ -40°C, CPS	D-4684	27,700
Phosphorous, Wt%	ICP	760 ppm
Zinc, Wt%	ICP	840 ppm
TBN, Mg KOH/g	D-2896	7.4

Lucas Synthetic SAE 0W-20 is a formulation of high quality synthetic base stocks and an exclusive high performance additive package. It's the ideal on-track/off-track lubricant that ensures minimum drag, maximum protection from wear, maximum fuel mileage and easier cold weather starting. Lucas Synthetic SAE 0W-20 is the perfect lubricant for the high temperatures of turbo charged engines. It blends with other motor oils, synthetic or petroleum. Expect more miles/kilometers between overhauls and lower oil temperatures. Exceeds American AND European OEM specifications. Exceeds performance levels of API SN PLUS/SN/SM, ILSAC GF-5, ACEA A1-12, A5-12.

# SYNTHETIC SAE 0W-30

PRODUCT # 10179, 10181, 10183, 20179

API Service SM/SL/SJ/CF



TEST	ASTM	TYPICAL
API Gravity	D-1298	32.8
Specific Gravity @ 60°F	D-1298	.8621
Density @ 60°F LBS/US Gal	D-1298	7.171
Viscosity @ 40°C cSt	D-445	55
Viscosity @ 100°C cSt	D-445	10.5
VI		186
Flash Point, COC °F	D-92	445
Color		Light Brown
Zinc, Wt. %		.12

Lucas Synthetic SAE 0W-30 Motor Oil is a formulation of high quality synthetic base stocks and an exclusive high performance additive package. It's an ideal on track/off track lubricant that ensures minimum drag for maximum fuel mileage, and easy cold weather starting. The user can expect maximum protection from wear even with extended drain intervals. The exclusive additive package in Lucas Synthetic SAE 0W-30 insures extra protection and longer oil life in turbo charged engines. The user can expect lower oil temperatures and more miles/kilometers between overhauls. Designed for use in both gasoline and automotive diesel engines. Meets or exceeds all manufacturers specifications for SAE 0W-30 and API SL and ILSAC GF3. Exceeds American and European OEM specifications. Exceeds performance levels of API SM/SL/SJ/CF, ACEA A1-08, B1-08, A5-08, B5-08, VW 500/502/505, Daimler Chrysler 229.1 and BMW Longlife Oil.

# SYNTHETIC SAE 0W-40

PRODUCT # 10211, 10213, 10215, 20211

API Service SM/SL/SJ/CF



TEST	ASTM	TYPICAL
API Gravity	D-1298	33.2
Specific Gravity @ 60°F	D-1298	.859
Density @ 60°F LBS/US Gal	D-1298	7.16
Viscosity @ 40°C cSt	D-445	84.0
Viscosity @ 100°C cSt	D-445	14.1
VI		173
Flash Point, COC °F	D-92	460
Color		Light Brown
CCS @ -35°C, CPS	D-5293	5,758
MRV TP-1 @ -40°C, CPS	D-4684	<60,000
HT/HS, CPS	D-4683	4.1
TBN, mg KoH/g	D-2896	9.5

Lucas Synthetic SAE 0W-40 is blended with highest quality synthetic base stocks and an exclusive high performance additive package that ensures minimum drag, extended engine life, longer oil life and easy cold weather starting. Lucas Synthetic SAE 0W-40 is excellent for use in turbo charged engines. The user can expect longer oil life and lower temperature. The exclusive additive package in Lucas Synthetic SAE 0W-40 allows for extended drain periods. Designed for use in both gasoline and automotive diesel engines. Meets or exceeds American and European OEM specifications. Exceeds performance levels of API SM/SL/SJ/CF, ACEA A3-98, B3-98, B4-98, VW 500/502/505, Daimler Chrysler 229.1 and BMW Longlife Oil.

# SYNTHETIC SAE 5W-20

PRODUCT # 10082, 10084, 10137, 10233, 20082

API SN PLUS/SN/SM, ILSAC GF-5, ACEA A1-12, A5-12



TEST	ASTM	TYPICAL
API Gravity	D-1298	33
Specific Gravity @ 60°F	D-1298	.8602
Density @ 60°F LBS/US Gal	D-1298	7.163
Viscosity @ 40°C cSt	D-445	48
Viscosity @ 100°C cSt	D-445	8
VI		138
Flash Point, COC °F	D-92	446
Color		Light Brown
Zinc, Wt. %		.09

Lucas Synthetic 5W-20 Motor Oil is a formulation of high quality synthetic base stocks and an exclusive high performance additive package. It's the ideal on track/off track lubricant that ensures minimum drag, maximum protection from wear, maximum fuel mileage, extended drain intervals, and easier cold weather starting. Lucas Synthetic SAE 5W-20 Motor Oil is the perfect lubricant for the high temperatures of turbo charged engines. It blends with other motor oils, synthetic or petroleum. Expect more miles/kilometers between overhauls and lower oil temperatures. For any situation that requires a heavier oil, add Lucas Heavy Duty Oil Stabilizer or Pure Synthetic Oil Stabilizer to gain the desired viscosity. Lucas Synthetic SAE 5W-20 has been used extensively and proven excellent for kart engines. It far outlasts conventional oils. Exceeds performance levels of API SN PLUS/SN/SM, ILSAC GF-5, ACEA A1-12, A5-12.

# SYNTHETIC SAE 5W-30

PRODUCT # 10049, 10207, 10209, 10234, 20049

API SN PLUS/SN/SM, ILSAC GF-5, ACEA A1-12, A5-12



TEST	ASTM	TYPICAL
API Gravity	D-1298	32.7
Specific Gravity @ 60°F	D-1298	.8618
Density @ 60°F LBS/US Gal	D-1298	7.176
Viscosity @ 40°C cSt	D-445	63.0
Viscosity @ 100°C cSt	D-445	11.0
Viscosity Index	D-2270	170
Color		Light Brown
Flash Point, COC °F	D-92	460
CCS @ -30°C, CPS	D-5293	6,600 Max
MRV TP-1 @ -35°C, CPS	D-4684	60,000 Max
P, Wt %	ICP	0.08 Max
Z, Wt %	ICP	0.08 Typ
TBN, Mg KoH/g	D-2896	8.0

Lucas Synthetic SAE 5W-30 Motor Oil is a formulation of high quality synthetic base stocks and an exclusive high performance additive package. It's an ideal on track/off track lubricant that ensures minimum drag for maximum fuel mileage, and easy cold weather starting. The user can expect maximum protection from wear even with extended drain intervals. The exclusive additive package in Lucas Synthetic SAE 5W-30 ensures extra protection and longer oil life in turbo charged engines. The user can expect more miles/kilometers between overhauls and lower oil temperatures. Designed for use in gasoline engines only. Exceeds American and European OEM specifications. Exceeds performance levels of API SN PLUS/SN/SM, ILSAC GF-5, ACEA A1-12, A5-12.

# SYNTHETIC SAE 5W-40

PRODUCT # 10189, 10191, 10193, 20189

API SN PLUS/SN/SM



TEST	ASTM	TYPICAL
API Gravity	D-1298	32.6
Specific Gravity @ 60°F	D-1298	.8623
Density @ 60°F LBS/US Gal	D-1298	7.180
Viscosity @ 40°C cSt	D-445	71
Viscosity @ 100°C cSt	D-445	13.5
VI		197
Flash Point, COC °F	D-92	455
Color		Light Brown

Lucas Synthetic SAE 5W-40 Motor Oil is a formulation of high quality synthetic base stocks and an exclusive high performance additive package. It's an ideal on track/off track lubricant that ensures minimum drag for maximum fuel mileage, and easy cold weather starting. The user can expect maximum protection from wear even with extended drain intervals. The exclusive additive package in Lucas Synthetic SAE 5W-40 ensures extra protection and longer oil life in turbo charged engines. The user can expect lower oil temperatures and more miles/kilometers between overhauls. Designed for use in both gasoline and automotive diesel engines. Meets or exceeds all manufacturers specifications for API SN PLUS/SN/SM.

# SYNTHETIC SAE 10W-30

PRODUCT # 10050, 10117, 10119, 10277, 20050, 20128

API SN PLUS/SN/SM, ILSAC GF-5, ACEA A1-12, A5-12



TEST	ASTM	TYPICAL
API Gravity	D-1298	33.2
Specific Gravity @ 60°F	D-1298	.8591
Density @ 60°F LBS/US Gal	D-1298	7.153
Viscosity @ 40°C cSt	D-445	57.0
Viscosity @ 100°C cSt	D-445	10.5
Viscosity Index	D-2270	178
Flash Point, COC °F	D-92	455
Pour Point	D-97	-36
Color		Light Brown
CCS @ -25°C, CPS	D-5293	7,000 Max
MRV TP-1 @ -30°C, CPS	D-4684	60,000 Max
Z, Wt %	ICP	0.08 Typ
P, Wt %	ICP	0.08 Max
TBN, Mg KoH/g	D-2896	8.0

This excellent product provides the consistent viscosity needed for precision ET racing. Lucas Synthetic SAE 10W-30 is a formulation of only the finest light synthetic base oils plus an exclusive additive package that includes lubricity agents and anti-seize agents that control drag like a zero weight oil and protect like a heavy multi-viscosity oil. It is the perfect non-foaming lubricant for high RPM karting and motorcycle engines. It is also excellent for normal highway use. Lucas Synthetic SAE 10W-30 is the perfect lubricant for extreme low temperatures or extreme high temperatures and blends with other synthetic or regular motor oil. Blend a quart or two into your conventional motor oil for easier starting and longer oil life. Exceeds American and European OEM specifications. Exceeds performance levels of API SN PLUS/SN/SM, ILSAC GF-5, ACEA A1-12, A5-12.

# SYNTHETIC SAE 20W-50

PRODUCT # 10054, 10060, 10108, 20054

API Service SN/SM/SL/SJ



TEST	ASTM	TYPICAL
API Gravity	D-1298	27.2
Specific Gravity @ 60°F	D-1298	.8916
Density @ 60°F LBS/US Gal	D-1298	7.424
Viscosity @ 40°C, cSt	D-445	111.5
Viscosity @ 100°C, cSt	D-445	18
Flash Point COC °F	D-92	425
Color		Amber
Viscosity Index	D-2270	179

This excellent product provides the consistent viscosity needed for precision ET racing. It also stands up to heat and fuel dilution for the longevity required by circle track and off-road racers. Lucas Synthetic SAE 20W-50 is a formulation of only the finest synthetic base oils plus an exclusive additive package that includes lubricity agents and anti-seize agents that control drag like a zero weight oil and protect like a heavy multi-viscosity oil. It's the perfect non-foaming lubricant for high RPM performance engines, including motorcycle engines. It's also excellent for normal highway use. Very long lasting. Lucas Synthetic SAE 20W-50 is the perfect lubricant for low temperatures or extreme high temperatures and blends with other synthetic or regular motor oil. Blend a quart or two into your conventional motor oil for easier starting and longer oil life. Meets or exceeds all manufacturers specifications for SAE 20W-50 and API SL. Exceeds American and European OEM specifications. Exceeds performance levels of

56 API SN/SM/SL/SJ, ACEA A3-08, B3-08, B4-08, VW 500/502/505, Daimler Chrysler 229.1 and BMW Longlife Oil.

## HOT ROD AND CLASSIC CAR OIL SAE 10W-30

PRODUCT # 10679, 10681, 10687



TEST	ASTM	TYPICAL
API Gravity	D-1298	30.0
Specific Gravity @ 60°F	D-1298	0.876
Density @ 60°F LBS/US Gal	D-1298	7.30
Viscosity @ 40°C, cSt	D-445	73.4
Viscosity @ 100°C, cSt	D-445	10.9
Flash Point COC °F	D-92	405
Color		Amber
Viscosity Index	D-2270	138
CCS @ -25°C, CPS	D-5293	7,000 Max
MRV @ -30°C, CPS	D-4684	60,000 Max
Zinc, Wt%	X-Ray	0.21
Phosphorous, Wt%	X-Ray	0.19
TBN Mg KOH/g	D-2896	9.2

Lucas Hot Rod & Classic Car Motor Oil SAE 10W-30 is manufactured with the highest quality paraffinic base oils and is fortified with a unique additive package containing high levels of zinc, molybdenum and phosphorus, which provides a tougher, thicker additive film for maximum protection even under the most severe conditions. It lowers oil temperatures, extends oil life and minimizes metal fatigue. It improves the film strength between the cylinder wall and piston rings and slows oil burning and improves pressure in worn engines. It has good cold temperature properties and stands up to high operating temperatures. It is compatible with methanol and all racing fuels, as well as with synthetic and non-synthetic oils. Lucas Hot Rod & Classic Car Motor Oil SAE 10W-30 is for muscle, showroom, classic and trophy cars without catalytic converters. It can be used in racing applications. Not recommended for passenger car use.

## HOT ROD AND CLASSIC CAR OIL SAE 10W-40

PRODUCT # 10683, 10688



TEST	ASTM	TYPICAL
API Gravity	D-1298	31.9
Specific Gravity @ 60°F	D-1298	0.866
Density @ 60°F LBS/US Gal	D-1298	7.21
Viscosity @ 40°C, cSt	D-445	93.6
Viscosity @ 100°C, cSt	D-445	14.4
Flash Point COC °F	D-92	405
Color		Amber
Viscosity Index	D-2270	159
CCS @ -25°C, CPS	D-5293	7,000 Max
MRV @ -30°C, CPS	D-4684	60,000 Max
Zinc, Wt%	X-Ray	0.21
Phosphorous, Wt%	X-Ray	0.19
TBN Mg KOH/g	D-2896	9.2

Lucas Hot Rod & Classic Car Motor Oil SAE 10W-40 is manufactured with the highest quality paraffinic base oils and is fortified with a unique additive package containing high levels of zinc, molybdenum and phosphorus, which provides a tougher, thicker additive film for maximum protection even under the most severe conditions. It lowers oil temperatures, extends oil life and minimizes metal fatigue. It improves the film strength between the cylinder wall and piston rings and slows oil burning and improves pressure in worn engines. It has good cold temperature properties and stands up to high operating temperatures. It is compatible with methanol and all racing fuels, as well as with synthetic and non-synthetic oils. Lucas Hot Rod & Classic Car Motor Oil SAE 10W-40 is for muscle, showroom, classic and trophy cars without catalytic converters. It can be used in racing applications. Not recommended for passenger car use.

# HOT ROD AND CLASSIC CAR OIL SAE 20W-50

PRODUCT # 10684, 10689



TEST	ASTM	TYPICAL
<b>API Gravity</b>	<b>D-1298</b>	<b>28.0</b>
<b>Specific Gravity @ 60°F</b>	<b>D-1298</b>	<b>0.867</b>
<b>Density @ 60°F LBS/US Gal</b>	<b>D-1298</b>	<b>7.39</b>
<b>Viscosity @ 40°C, cSt</b>	<b>D-445</b>	<b>191.3</b>
<b>Viscosity @ 100°C, cSt</b>	<b>D-445</b>	<b>20.1</b>
<b>Flash Point COC °F</b>	<b>D-92</b>	<b>425</b>
<b>Color</b>		<b>Amber</b>
<b>Viscosity Index</b>	<b>D-2270</b>	<b>122</b>
<b>CCS @ -15°C, CPS</b>	<b>D-5293</b>	<b>9,500 Max</b>
<b>MRV @ -20°C, CPS</b>	<b>D-4684</b>	<b>60,000 Max</b>
<b>Zinc, Wt%</b>	<b>X-Ray</b>	<b>0.21</b>
<b>Phosphorous, Wt%</b>	<b>X-Ray</b>	<b>0.19</b>
<b>TBN Mg KOH/g</b>	<b>D-2896</b>	<b>9.2</b>

Lucas Hot Rod & Classic Car Motor Oil SAE 20W-50 is manufactured with the highest quality paraffinic base oils and is fortified with a unique additive package containing high levels of zinc, molybdenum and phosphorus, which provides a tougher, thicker additive film for maximum protection even under the most severe conditions. It lowers oil temperatures, extends oil life and minimizes metal fatigue. It improves the film strength between the cylinder wall and piston rings and slows oil burning and improves pressure in worn engines. It has good cold temperature properties and stands up to high operating temperatures. It is compatible with methanol and all racing fuels, as well as with synthetic and non-synthetic oils. Lucas Hot Rod & Classic Car Motor Oil SAE 20W-50 is for muscle, showroom, classic and trophy cars without catalytic converters. It can be used in racing applications. Not recommended for passenger car use.

## MOTORCYCLE OILS

### SAE 10W-40 MOTORCYCLE OIL

PRODUCT # 10767, 10769, 10792, 20767



TEST	ASTM	TYPICAL
API Gravity	D-1298	32.8
Specific Gravity @ 60°F	D-1298	.8612
Density @ 60°F LBS/US Gal	D-1298	7.171
Viscosity @ 40°C, cSt	D-445	99
Viscosity @ 100°C, cSt	D-445	15
Viscosity Index	D-2270	160
Color		Light Brown
Flash Point, COC °F	D-92	422

Lucas SAE 10W-40 High Performance Motorcycle Oil is formulated with an exclusive additive package that is not found in other brands. It contains a high level of detergents and dispersants to resist sludge and varnish formation. Lucas SAE 10W-40 High Performance Motorcycle Oil is formulated to lower engine temperature and raise oil pressure, reduce noise and increase performance. It offers maximum protection with minimum drag. The exclusive additive package in Lucas SAE 10W-40 High Performance Motorcycle Oil allows for extended drain intervals. Lucas SAE 10W-40 High Performance Motorcycle Oil far exceeds all OEM specifications. Formulated to meet ALL motorcycles that call for a SAE 10W-40 motor oil. Meets or exceeds: API SM, SL, SJ, SH, SG, SF, CC, CD • JASO MA/MA-2 • ACEA A3

### SAE 20W-50 MOTORCYCLE OIL

PRODUCT # 10700, 10729, 10731, 20700



TEST	ASTM	TYPICAL
API Gravity	D-1298	29.3
Specific Gravity @ 60°F	D-1298	.8800
Density @ 60°F LBS/US Gal	D-1298	7.328
Viscosity @ 40°C, cSt	D-445	175
Viscosity @ 100°C, cSt	D-445	20
Viscosity Index	D-2270	133
Color		Light Brown
Flash Point, COC °F	D-92	450

Lucas SAE 20W-50 High Performance Motorcycle Oil is formulated with an exclusive additive package that is not found in other brands. It contains a high level of detergents and dispersants to resist sludge and varnish formation. Lucas SAE 20W-50 High Performance Motorcycle Oil is formulated to lower engine temperature and raise oil pressure, reduce noise and increase performance. It offers maximum protection with minimum drag. The exclusive additive package in Lucas SAE 20W-50 High Performance Motorcycle Oil allows for extended drain intervals. Lucas SAE 20W-50 High Performance Motorcycle Oil far exceeds all OEM specifications. Formulated to meet ALL motorcycles that call for a SAE 20W-50 motor oil. Meets or exceeds: API SM, SL, SJ, SH, SG, SF, CC, CD • JASO MA/MA-2 • ACEA A3

# SAE 50 MOTORCYCLE OIL

PRODUCT # 10712, 10747, 10749, 20712

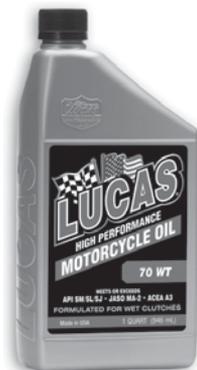


TEST	ASTM	TYPICAL
API Gravity	D-1298	28.7
Specific Gravity @ 60°F	D-1298	.8833
Density @ 60°F LBS/US Gal	D-1298	7.355
Viscosity @ 40°C, cSt	D-445	185
Viscosity @ 100°C, cSt	D-445	20
Viscosity Index	D-2270	125
Color		Light Brown
Flash Point, COC °F	D-92	460

Lucas SAE 50 High Performance Motorcycle Oil is formulated with an exclusive additive package that is not found in other brands. It contains a high level of detergents and dispersants to resist sludge and varnish formation. Lucas SAE 50 High Performance Motorcycle Oil is formulated to lower engine temperature and raise oil pressure, reduce noise and increase performance. It offers maximum protection with minimum drag. The exclusive additive package in Lucas SAE 50 High Performance Motorcycle Oil allows for extended drain intervals. Lucas SAE 50 High Performance Motorcycle Oil far exceeds all OEM specifications. Formulated to meet ALL motorcycles that call for a SAE 50 motor oil. Meets or exceeds: API SM, SL, SJ, SH, SG, SF, CC, CD • JASO MA/MA-2 • ACEA A3

# 70 wt. MOTORCYCLE OIL

PRODUCT # 10714, 10750, 10752, 20714



TEST	ASTM	TYPICAL
API Gravity	D-1298	26.9
Specific Gravity @ 60°F	D-1298	.8883
Density @ 60°F LBS/US Gal	D-1298	7.397
Viscosity @ 40°C, cSt	D-445	400
Viscosity @ 100°C, cSt	D-445	30
Viscosity Index	D-2270	105
Color		Light Brown
Flash Point, COC °F	D-92	490

Lucas 70 wt. High Performance Motorcycle Oil is formulated with an exclusive additive package that is not found in other brands. It contains a high level of detergents and dispersants to resist sludge and varnish formation. Lucas 70 wt. High Performance Motorcycle Oil is formulated to lower engine temperature and raise oil pressure, reduce noise and increase performance. It offers maximum protection with minimum drag. The exclusive additive package in Lucas 70 wt. High Performance Motorcycle Oil allows for extended drain intervals. Lucas 70 wt. High Performance Motorcycle Oil far exceeds all OEM specifications. Formulated to meet ALL motorcycles that call for a 70 wt. motor oil. Meets or exceeds: API SM, SL, SJ, SH, SG, SF, CC, CD • JASO MA/MA-2 • ACEA A3



# **SEMI-SYNTHETIC SAE 10W-40 MOTORCYCLE OIL**

**PRODUCT # 10710, 10744, 10746, 20710**

TEST	ASTM	TYPICAL
<b>API Gravity</b>	<b>D-1298</b>	<b>32.5</b>
<b>Specific Gravity @ 60°F</b>	<b>D-1298</b>	<b>.8628</b>
<b>Density @ 60°F LBS/US Gal</b>	<b>D-1298</b>	<b>7.184</b>
<b>Viscosity @ 40°C, cSt</b>	<b>D-445</b>	<b>85</b>
<b>Viscosity @ 100°C, cSt</b>	<b>D-445</b>	<b>15</b>
<b>Viscosity Index</b>	<b>D-2270</b>	<b>187</b>
<b>Color</b>		<b>Light Brown</b>
<b>Flash Point, COC °F</b>	<b>D-92</b>	<b>422</b>

Lucas Semi-Synthetic SAE 10W-40 High Performance Motorcycle Oil is formulated with an exclusive additive package that is not found in other brands. It contains a high level of detergents and dispersants to resist sludge and varnish formation. Lucas Semi-Synthetic SAE 10W-40 High Performance Motorcycle Oil is formulated to lower engine temperature and raise oil pressure, reduce noise and increase performance. It offers maximum protection with minimum drag. The exclusive additive package in Lucas Semi-Synthetic SAE 10W-40 High Performance Motorcycle Oil allows for extended drain intervals. Lucas Semi-Synthetic SAE 10W-40 High Performance Motorcycle Oil far exceeds all OEM specifications. Formulated to meet ALL motorcycles that call for a Semi-Synthetic SAE 10W-40 motor oil. Meets or exceeds: API SM, SL, SJ, SH, SG, SF, CC, CD • JASO MA/MA-2 • ACEA A3



# **SYNTHETIC SAE 0W-40 MOTORCYCLE OIL**

**PRODUCT # 10718, 10756, 10758, 20718**

TEST	ASTM	TYPICAL
<b>API Gravity</b>	<b>D-1298</b>	<b>35.4</b>
<b>Specific Gravity @ 60°F</b>	<b>D-1298</b>	<b>.8478</b>
<b>Density @ 60°F LBS/US Gal</b>	<b>D-1298</b>	<b>7.059</b>
<b>Viscosity @ 40°C, cSt</b>	<b>D-445</b>	<b>70</b>
<b>Viscosity @ 100°C, cSt</b>	<b>D-445</b>	<b>14</b>
<b>Viscosity Index</b>	<b>D-2270</b>	<b>210</b>
<b>Color</b>		<b>Light Brown</b>
<b>Flash Point, COC °F</b>	<b>D-92</b>	<b>370</b>

Lucas Synthetic SAE 0W-40 High Performance Motorcycle Oil is formulated with an exclusive additive package that is not found in other brands. It contains a high level of detergents and dispersants to resist sludge and varnish formation. This particular formulation is a high performance blend designed for easy cold weather starting. Especially recommended for snow mobile, 4-stroke engines. Lucas Synthetic SAE 0W-40 High Performance Motorcycle Oil is formulated to lower engine temperature and raise oil pressure, reduce noise and increase performance. It offers maximum protection with minimum drag. The exclusive additive package in Lucas Synthetic SAE 0W-40 High Performance Motorcycle Oil allows for extended drain intervals. Lucas Synthetic SAE 0W-40 High Performance Motorcycle Oil far exceeds all OEM specifications. Formulated to meet ALL motorcycles that call for a Synthetic SAE 0W-40 motor oil. Meets or exceeds: API SM, SL, SJ, SH, SG, SF, CC, CD • JASO MA/MA-2 • ACEA A3

# SYNTHETIC SAE 5W-20 MOTORCYCLE OIL

PRODUCT # 10704, 10735, 10737, 20704



TEST	ASTM	TYPICAL
API Gravity	D-1298	33.8
Specific Gravity @ 60°F	D-1298	.8560
Density @ 60°F LBS/US Gal	D-1298	7.128
Viscosity @ 40°C, cSt	D-445	49
Viscosity @ 100°C, cSt	D-445	8
Viscosity Index	D-2270	134
Color		Light Brown
Flash Point, COC °F	D-92	455

Lucas Synthetic SAE 5W-20 High Performance Motorcycle Oil is formulated with an exclusive additive package that is not found in other brands. It contains a high level of detergents and dispersants to resist sludge and varnish formation. Lucas Synthetic SAE 5W-20 High Performance Motorcycle Oil is formulated to lower engine temperature and raise oil pressure, reduce noise and increase performance. It offers maximum protection with minimum drag. The exclusive additive package in Lucas Synthetic SAE 5W-20 High Performance Motorcycle Oil allows for extended drain intervals. Lucas Synthetic SAE 5W-20 High Performance Motorcycle Oil far exceeds all OEM specifications. Formulated to meet ALL motorcycles that call for a Synthetic SAE 5W-20 motor oil. Meets or exceeds: API SM, SL, SJ, SH, SG, SF, CC, CD • JASO MA/MA-2 • ACEA A3

# SYNTHETIC SAE 5W-30 MOTORCYCLE OIL

PRODUCT # 10706, 10738, 10740, 20706



TEST	ASTM	TYPICAL
API Gravity	D-1298	33.1
Specific Gravity @ 60°F	D-1298	.8597
Density @ 60°F LBS/US Gal	D-1298	7.158
Viscosity @ 40°C, cSt	D-445	55
Viscosity @ 100°C, cSt	D-445	11
Viscosity Index	D-2270	199
Color		Light Brown
Flash Point, COC °F	D-92	435

Lucas Synthetic SAE 5W-30 High Performance Motorcycle Oil is formulated with an exclusive additive package that is not found in other brands. It contains a high level of detergents and dispersants to resist sludge and varnish formation. Lucas Synthetic SAE 5W-30 High Performance Motorcycle Oil is formulated to lower engine temperature and raise oil pressure, reduce noise and increase performance. It offers maximum protection with minimum drag. The exclusive additive package in Lucas Synthetic SAE 5W-30 High Performance Motorcycle Oil allows for extended drain intervals. Lucas Synthetic SAE 5W-30 High Performance Motorcycle Oil far exceeds all OEM specifications. Formulated to meet ALL motorcycles that call for a Synthetic SAE 5W-30 motor oil. Meets or exceeds: API SM, SL, SJ, SH, SG, SF, CC, CD • JASO MA/MA-2 • ACEA A3

# SYNTHETIC SAE 10W-30 MOTORCYCLE OIL

PRODUCT # 10708, 10741, 10743, 20708



TEST	ASTM	TYPICAL
API Gravity	D-1298	34.0
Specific Gravity @ 60°F	D-1298	.8550
Density @ 60°F LBS/US Gal	D-1298	7.119
Viscosity @ 40°C, cSt	D-445	36
Viscosity @ 100°C, cSt	D-445	11
Viscosity Index	D-2270	151
Color		Light Brown
Flash Point, COC °F	D-92	450

Lucas Synthetic SAE 10W-30 High Performance Motorcycle Oil is formulated with an exclusive additive package that is not found in other brands. It contains a high level of detergents and dispersants to resist sludge and varnish formation. Lucas Synthetic SAE 10W-30 High Performance Motorcycle Oil is formulated to lower engine temperature and raise oil pressure, reduce noise and increase performance. It offers maximum protection with minimum drag. The exclusive additive package in Lucas Synthetic SAE 10W-30 High Performance Motorcycle Oil allows for extended drain intervals. Lucas Synthetic SAE 10W-30 High Performance Motorcycle Oil far exceeds all OEM specifications. Formulated to meet ALL motorcycles that call for a Synthetic SAE 10W-30 motor oil. Meets or exceeds: API SM, SL, SJ, SH, SG, SF, CC, CD • JASO MA/MA-2 • ACEA A3

# SYNTHETIC SAE 10W-40 MOTORCYCLE OIL

PRODUCT # 10793



TEST	ASTM	TYPICAL
API Gravity	D-1298	32.8
Specific Gravity @ 60°F	D-1298	.854
Density @ 60°F LBS/US Gal	D-1298	7.112
Viscosity @ 40°C, cSt	D-445	85
Viscosity @ 100°C, cSt	D-445	15
Viscosity Index	D-2270	189
Color		Light Brown
Flash Point, COC °F	D-92	450

Lucas Synthetic SAE 10W-40 High Performance Motorcycle Oil is formulated with an exclusive additive package that is not found in other brands. It contains a high level of detergents and dispersants to resist sludge and varnish formation. Lucas Synthetic SAE 10W-40 High Performance Motorcycle Oil is formulated to lower engine temperature and raise oil pressure, reduce noise and increase performance. It offers maximum protection with minimum drag. The exclusive additive package in Lucas Synthetic SAE 10W-40 High Performance Motorcycle Oil allows for extended drain intervals. Lucas Synthetic SAE 10W-40 High Performance Motorcycle Oil far exceeds all OEM specifications. Formulated to meet ALL motorcycles that call for a Synthetic SAE 10W-40 motor oil. Meets or exceeds: API SM, SL, SJ, SH, SG, SF, CC, CD • JASO MA/MA-2 • ACEA A3

# SYNTHETIC SAE 10W-40 with Moly MOTORCYCLE OIL



PRODUCT # 10777

API Service SJ, JASO MB

TEST	ASTM	TYPICAL
API Gravity	D-1298	34.2
Specific Gravity @ 60°F	D-1298	0.854
Density @ 60°F LBS/US Gal	D-1298	7.12
Viscosity @ 40°C, cSt	D-445	98
Viscosity @ 100°C, cSt	D-445	14.2
Viscosity Index	D-2270	160
Color		Amber
Flash Point, COC °F	D-92	450
CCS @ -25°C, CPS	D-5293	7,000 Max
MRV TP-1 @ -30°C, CPS	D-4684	60,000 Max

Lucas Synthetic SAE 10W-40 with Moly API SJ, JASO MB Motorcycle Oil is a blend of high quality synthetic base oils and an exclusive high performance additive package that lowers oil temperatures, extends oil and component life, reduces noise and reduces leaks. Our unique moly chemistry provides maximum friction reducing properties in severe racing conditions. Provides wear protection at start-up and has excellent cold temperature properties. Not recommended for use in wet clutch applications. For use in all air-cooled and water/radiator cooled 4-stroke engines. BAJA TESTED.

# SYNTHETIC SAE 10W-50 MOTORCYCLE OIL



PRODUCT # 10716, 10753, 10755, 20716

TEST	ASTM	TYPICAL
API Gravity	D-1298	31.8
Specific Gravity @ 60°F	D-1298	.8665
Density @ 60°F LBS/US Gal	D-1298	7.215
Viscosity @ 40°C, cSt	D-445	168
Viscosity @ 100°C, cSt	D-445	18
Viscosity Index	D-2270	118
Color		Light Brown
Flash Point, COC °F	D-92	435

Lucas Synthetic SAE 10W-50 High Performance Motorcycle Oil is formulated with an exclusive additive package that is not found in other brands. It contains a high level of detergents and dispersants to resist sludge and varnish formation. Lucas Synthetic SAE 10W-50 High Performance Motorcycle Oil is formulated to lower engine temperature and raise oil pressure, reduce noise and increase performance. It offers maximum protection with minimum drag. The exclusive additive package in Lucas Synthetic SAE 10W-50 High Performance Motorcycle Oil allows for extended drain intervals. Lucas Synthetic SAE 10W-50 High Performance Motorcycle Oil far exceeds all OEM specifications. Formulated to meet ALL motorcycles that call for a Synthetic SAE 10W-50 motor oil. Meets or exceeds: API SM, SL, SJ, SH, SG, SF, CC, CD • JASO MA/MA-2 • ACEA A3

# SYNTHETIC SAE 20W-50 MOTORCYCLE OIL

PRODUCT # 10702, 10732, 10734, 20702



TEST	ASTM	TYPICAL
<b>API Gravity</b>	<b>D-1298</b>	<b>32.2</b>
<b>Specific Gravity @ 60°F</b>	<b>D-1298</b>	<b>.8644</b>
<b>Density @ 60°F LBS/US Gal</b>	<b>D-1298</b>	<b>7.198</b>
<b>Viscosity @ 40°C, cSt</b>	<b>D-445</b>	<b>118</b>
<b>Viscosity @ 100°C, cSt</b>	<b>D-445</b>	<b>19</b>
<b>Viscosity Index</b>	<b>D-2270</b>	<b>182</b>
<b>Color</b>		<b>Light Brown</b>
<b>Flash Point, COC °F</b>	<b>D-92</b>	<b>445</b>

Lucas Synthetic SAE 20W-50 High Performance Motorcycle Oil is formulated with an exclusive additive package that is not found in other brands. It contains a high level of detergents and dispersants to resist sludge and varnish formation. Lucas Synthetic SAE 20W-50 High Performance Motorcycle Oil is formulated to lower engine temperature and raise oil pressure, reduce noise and increase performance. It offers maximum protection with minimum drag. The exclusive additive package in Lucas Synthetic SAE 20W-50 High Performance Motorcycle Oil allows for extended drain intervals. Lucas Synthetic SAE 20W-50 High Performance Motorcycle Oil far exceeds all OEM specifications. Formulated to meet ALL motorcycles that call for a Synthetic SAE 20W-50 motor oil. Meets or exceeds: API SM, SL, SJ, SH, SG, SF, CC, CD • JASO MA/MA-2 • ACEA A3

# SEMI-SYNTHETIC SAE 10W-40 ATV/UTV OIL

PRODUCT # 10720, 10722, 10724, 20720



TEST	ASTM	TYPICAL
<b>API Gravity</b>	<b>D-1298</b>	<b>32.0</b>
<b>Specific Gravity @ 60°F</b>	<b>D-1298</b>	<b>.8654</b>
<b>Density @ 60°F LBS/US Gal</b>	<b>D-1298</b>	<b>7.206</b>
<b>Viscosity @ 40°C, cSt</b>	<b>D-445</b>	<b>81</b>
<b>Viscosity @ 100°C, cSt</b>	<b>D-445</b>	<b>14</b>
<b>Viscosity Index</b>	<b>D-2270</b>	<b>180</b>
<b>Color</b>		<b>Light Brown</b>
<b>Flash Point, COC °F</b>	<b>D-92</b>	<b>422</b>

Lucas Semi-Synthetic SAE 10W-40 High Performance ATV/UTV Oil is formulated with an exclusive additive package that is not found in other brands. It contains a high level of detergents and dispersants to resist sludge and varnish formation. Lucas Semi-Synthetic SAE 10W-40 High Performance ATV/UTV Oil is formulated to lower engine temperature and raise oil pressure, reduce noise and increase performance. It offers maximum protection with minimum drag. The exclusive additive package in Lucas Semi-Synthetic SAE 10W-40 High Performance ATV/UTV Oil allows for extended drain intervals. Lucas Semi-Synthetic SAE 10W-40 High Performance ATV/UTV Oil far exceeds all OEM specifications. Formulated to meet ALL ATV's and UTV's that call for a Semi-Synthetic SAE 10W-40 motor oil. Meets or exceeds: API SG/SF/CC/CD • JASO MA/MA2 • ACEA A3



# **SYNTHETIC SAE 50 WT. MOTORCYCLE OIL**

**(SPECIFICALLY BLENDED FOR AIR-COOLED V-TWIN ENGINES)**

**PRODUCT # 10765, 10770**

<b>TEST</b>	<b>ASTM</b>	<b>TYPICAL</b>
<b>Specific Gravity @ 60°F</b>	<b>D-1298</b>	<b>0.864</b>
<b>Density @ 60°F LBS/US Gal</b>	<b>D-1298</b>	<b>7.19</b>
<b>Flash Point, COC °F</b>	<b>D-92</b>	<b>450</b>
<b>Viscosity @ 40°C, cSt</b>	<b>D-445</b>	<b>145</b>
<b>Viscosity @ 100°C, cSt</b>	<b>D-445</b>	<b>18.3</b>
<b>Viscosity Index</b>	<b>D-2270</b>	<b>141</b>
<b>Color</b>	<b>Visual</b>	<b>Amber</b>

Lucas Synthetic SAE 50 wt. Motorcycle Oil is blended with the highest quality synthetic base oils and our exclusive high performance additives. Designed for all 4-stroke air-cooled V-Twin/Opposed Twin/Slant Twin engines made after 1984. Lucas Synthetic SAE 50 wt. Motorcycle Oil provides excellent thermal stability, resists oil oxidation, reduces operating temperatures, reduces wear, and extends oil drain intervals and engine life. Our product helps your engine run cooler, smoother and longer.



# **MOTORCYCLE OIL STABILIZER**

**PRODUCT # 10727**

<b>TEST</b>	<b>ASTM</b>	<b>TYPICAL</b>
<b>API Gravity</b>	<b>D-1298</b>	<b>26.5</b>
<b>Specific Gravity @ 60°F</b>	<b>D-1298</b>	<b>0.8956</b>
<b>Density @ 60°F</b>	<b>D-1298</b>	<b>7.458</b>
<b>Viscosity @ 100°C, cSt</b>	<b>D-445</b>	<b>110.0</b>
<b>Flash Point COC °F</b>	<b>D-92</b>	<b>470</b>
<b>Color</b>		<b>Amber</b>

Motorcycle Oil Stabilizer is a 100% petroleum product developed specifically for motorcycle applications. Its 12 ounce size makes it perfect for fitting into saddle bags or other onboard storage areas. It virtually eliminates dry starts, wear, extends oil life and lowers oil temperatures, especially in Harley Davidson's. It is designed to improve oil pressure, reduce smoking, and eliminate oil leaks and blow-by in older engines. It also quiets engines and can be used in gear boxes and primaries.

# OCTANE BOOSTER

PRODUCT # 10725



TEST	ASTM	TYPICAL
API Gravity	D-1298	32.3
Specific Gravity @ 60°F	D-1298	.8639
Density @ 60°F LBS/US Gal	D-1298	7.193
Viscosity @ 100°C cSt	D-445	4.5
Flash Point, PMCC °F	D-93	192
Color		Clear Straw

Lucas Octane Booster is a genuine performance enhancer! It has been tested and proven to deliver at least three times more Boost than most other brands. It is suitable for use in fuel injected, carbureted, throttle body and rotary engines. It's safe for turbos, oxygen sensors and catalytic converters. Lucas Octane Booster contains specific upper cylinder lubricants that ensure easier piston travel and valve seat protection. It also ensures maximum life and performance from pumps, injectors and carburetors. Lucas Octane Booster eliminates spark knocks, pinging and dieseling. It promotes clean fuel burn for fewer emissions and more MPG. Use with each fill-up for maximum performance and fuel mileage. Lucas Octane Booster is safe for use in any engine on the track or on the street. Remember: When comparing other brands of octane booster, 10 points equal only one octane number. Not recommended in 2-Stroke engines.

**WARNING:** This product can expose you to naphthalene, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# SYNTHETIC FORK OIL

## 5wt. LIGHT

PRODUCT # 10771, 10780, 10785, 20771



TEST	ASTM	TYPICAL
Specific Gravity @ 60°F	D-1298	0.844
Density @ 60°F LBS/US Gal	D-1298	7.03
Flash Point, COC °F	D-92	428
Viscosity @ 40°C cSt	D-445	25.34
Viscosity @ 100°C cSt	D-445	5.5
Viscosity Index	D-2270	148
Color	Visual	Blue Green

Lucas High Performance Synthetic Fork Oil Light (5 wt.) is formulated with the highest quality synthetic base oils and our unique additive system to improve performance and extend the life of your fork's internal parts. Provides highly responsive handling and better shock behavior. Our High Performance Synthetic Fork Oil Light (5 wt.) prevents seal hardening, oxidation and oil thickening, foaming and static friction. Also, reduces thermal expansion and provides better wear protection. Designed for use in all systems, including damping rod, cartridge, bladder, conventional and inverted forks.

# **SYNTHETIC FORK OIL**

## **10wt. MEDIUM**

PRODUCT # 10772, 10781, 10786, 20772



<b>TEST</b>	<b>ASTM</b>	<b>TYPICAL</b>
<b>Specific Gravity @ 60°F</b>	<b>D-1298</b>	<b>0.850</b>
<b>Density @ 60°F LBS/US Gal</b>	<b>D-1298</b>	<b>7.08</b>
<b>Flash Point, COC °F</b>	<b>D-92</b>	<b>446</b>
<b>Viscosity @ 40°C cSt</b>	<b>D-445</b>	<b>42.0</b>
<b>Viscosity @ 100°C cSt</b>	<b>D-445</b>	<b>7.6</b>
<b>Viscosity Index</b>	<b>D-2270</b>	<b>153</b>
<b>Color</b>	<b>Visual</b>	<b>Blue Green</b>

Lucas High Performance Synthetic Fork Oil Medium (10 wt.) is formulated with the highest quality synthetic base oils and our unique additive system to improve performance and extend the life of your fork's internal parts. Provides highly responsive handling and better shock behavior. Our High Performance Synthetic Fork Oil Medium (10 wt.) prevents seal hardening, oxidation and oil thickening, foaming and static friction. Also, reduces thermal expansion and provides better wear protection. Designed for use in all systems, including damping rod, cartridge, bladder, conventional and inverted forks.

# **SYNTHETIC FORK OIL**

## **15wt. HEAVY**

PRODUCT # 10773, 10782, 20773



<b>TEST</b>	<b>ASTM</b>	<b>TYPICAL</b>
<b>Specific Gravity @ 60°F</b>	<b>D-1298</b>	<b>0.848</b>
<b>Density @ 60°F LBS/US Gal</b>	<b>D-1298</b>	<b>7.07</b>
<b>Flash Point, COC °F</b>	<b>D-92</b>	<b>425</b>
<b>Viscosity @ 40°C cSt</b>	<b>D-445</b>	<b>49.2</b>
<b>Viscosity @ 100°C cSt</b>	<b>D-445</b>	<b>8.6</b>
<b>Viscosity Index</b>	<b>D-2270</b>	<b>154</b>
<b>Color</b>	<b>Visual</b>	<b>Blue Green</b>

Lucas High Performance Synthetic Fork Oil Heavy (15 wt.) is formulated with the highest quality synthetic base oils and our unique additive system to improve performance and extend the life of your fork's internal parts. Provides highly responsive handling and better shock behavior. Our High Performance Synthetic Fork Oil Heavy (15 wt.) prevents seal hardening, oxidation and oil thickening, foaming and static friction. Also, reduces thermal expansion and provides better wear protection. Designed for use in all systems, including damping rod, cartridge, bladder, conventional and inverted forks.

# SYNTHETIC FORK OIL 20wt. EXTRA HEAVY

PRODUCT # 10779, 20779



TEST	ASTM	TYPICAL
API Gravity	D-1298	35.4
Specific Gravity @ 60°F	D-1298	0.848
Density @ 60°F LBS/US Gal	D-1298	7.06
Flash Point, COC °F	D-92	446
Viscosity @ 40°C cSt	D-445	77.5
Viscosity @ 100°C cSt	D-445	12.4
Viscosity Index	D-2270	161
Color	Visual	Blue Green

Lucas High Performance Synthetic Fork Oil Extra Heavy (20 wt.) is formulated with the highest quality synthetic base oils and our unique additive system to improve performance and extend the life of your fork's internal parts. Provides highly responsive handling and better shock behavior. Our High Performance Synthetic Fork Oil Extra Heavy (20 wt.) prevents seal hardening, oxidation and oil thickening, foaming and static friction. Also, reduces thermal expansion and provides better wear protection. Designed for use in all systems, including damping rod, cartridge, bladder, conventional and inverted forks.

# SYNTHETIC 80W-85W MOTORCYCLE TRANSMISSION OIL

PRODUCT # 10778, 20778



TEST	ASTM	TYPICAL
API Gravity	D-1298	34.2
Specific Gravity @ 60°F	D-1298	0.854
Density @ 60°F LBS/US Gal	D-1298	7.12
Viscosity @ 40°C, cSt	D-445	98
Viscosity @ 100°C, cSt	D-445	14.4
Viscosity Index	D-2270	160
Flash Point COC °F	D-92	440
Color		Red
CCS @ -25°C, CPS	D-5293	7,000 Max

Lucas Synthetic SAE 80W/85W Motorcycle Transmission Oil is a blend of high quality synthetic base oils and an exclusive high performance additive package that meets or exceeds Honda specifications. Excellent film strength prevents friction and heat extending the life of the oil and vital engine parts, while providing excellent cold temperature properties. Light viscosity oil formulated for 2 and 4 stroke transmissions and wet clutches. Our unique additive chemistry provides extreme pressure properties to give shock load protection even under the most severe riding conditions. Effectively reduces friction and drag to provide a competitive edge. Distinctive red color differentiates the fluid from engine oil. Baja tested and endorsed by Cameron Steele.



# SYNTHETIC SAE 75W-140 V-TWIN GEAR OIL

PRODUCT # 10791, 20791

TEST	ASTM	TYPICAL
API Gravity	D-1298	36.10
Specific Gravity	D-1298	0.844
Density @ 60°F LBS/Gal	D-1298	7.03
Viscosity @ 40°C, cSt	D-445	153.9
Viscosity @ 100°C, cSt	D-445	26.0
Viscosity Index	D-2270	205
Color	D-1500	0.5
Brookfield Viscosity @ -40°C	D-2893	150,000 Max

Lucas Synthetic V-Twin Motorcycle Gear Oil SAE 75W-140 is formulated with the highest quality synthetic base oils and Lucas unique additive system and is designed to cool, quiet and minimize wear and drag. Originally designed for V-Twins, but performs excellent in heavy duty or high performance transmission. Our high performance product stands up to high horsepower and high temperatures.



# PRIMARY CHAINCASE OIL

PRODUCT # 10790, 20790

TEST	ASTM	TYPICAL
API Gravity	D-1298	33.03
Specific Gravity	D-1298	0.860
Density @ 60°F LBS/Gal	D-1298	7.16
Viscosity @ 40°C, cSt	D-445	99
Viscosity @ 100°C, cSt	D-445	14.4
Viscosity Index	D-2270	150
Flash Point, COC °F	D-92	420
Color		Amber
CCS @ -25°C, CPS	D-5293	7,000 Max
MRV @ -30°C, CPS	D-4684	60,000 Max

Lucas Primary Chaincase Oil is specifically designed as a coolant for clutches. It is a blend of the highest quality base oils and unique Lucas additive package that carry away heat from the clutch and friction plates, and helps extend the life of the clutches. It is designed for use in heavy duty and high performance applications and meets or exceeds OEM requirements. It is designed to quiet the chains and improve performance.



# **ELECTRICAL CONTACT CLEANER AEROSOL**

**PRODUCT # 10799, 20799**

Lucas Contact Cleaner aerosol is a unique blend of solvents, cleaning agents and propellants designed to remove oil, dirt and moisture from contact points in small electrical equipment, controls, ignition systems, motors, relays and thermostats. This non-chlorinated, CFC free, VOC compliant formula dries quickly and leaves no residue. Lucas Contact Cleaner aerosol is compatible with metals, and elastomers. It is especially effective in motorcycle applications to clean electrical parts that have been exposed to high levels of oil, dirt and debris. Be careful when using around plastic. Although this product is compatible with most materials it is a good idea to treat a small area for compatibility purposes when using with plastic components. **EXTREMELY FLAMMABLE.** Do not store near fire, heated surfaces, sparks or flames. Turn off electrical equipment prior to cleaning and let dry completely before turning power back on.

 **WARNING:** This product can expose you to chemicals including toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# **HIGH PERFORMANCE FOAM FILTER OIL**

**PRODUCT # 10798, 20798**



<b>TEST</b>	<b>ASTM</b>	<b>TYPICAL</b>
<b>API Gravity</b>	<b>D-1298</b>	<b>29.4</b>
<b>Specific Gravity @ 60°F</b>	<b>D-1298</b>	<b>0.879</b>
<b>Density @ 60°F LBS/US Gal</b>	<b>D-1298</b>	<b>7.323</b>
<b>Viscosity @ 40°C, cSt</b>	<b>D-445</b>	<b>278</b>
<b>Viscosity @ 100°C, cSt</b>	<b>D-445</b>	<b>26</b>
<b>Viscosity Index</b>	<b>D-2270</b>	<b>122</b>
<b>Flash Point, COC, F°</b>	<b>D-92</b>	<b>410</b>
<b>Color</b>	<b>Visual</b>	<b>Blue</b>

Lucas Foam Filter Oil is a unique low solvent, medium viscosity formula designed to penetrate the filter media and trap dust, dirt and sand while improving air flow. Because it has a slight tackiness it stays in place throughout the service life. Its water proof formula helps block out moisture and water. Will not clog foam filters even in colder temperature applications. Its blue color ensures coverage across the entire filter area. We recommend using an over the counter cleaning agent to remove oil prior to reuse. Lucas Oil is presently working on introducing its own foam filter cleaning agent.

## 2-CYCLE OILS



### SEMI-SYNTHETIC 2-CYCLE OIL

PRODUCT # 10056, 10058, 10059, 10110, 10115, 10120,  
10125, 20058, 20059, 20110, 20115, 20120

Meets ISO GD and JASO FD • Exceeds API TC

TEST	ASTM	TYPICAL
Specific Gravity @ 60°F	D-1298	.8663
API @ 600°F	D-1298	31.8
Viscosity @ 100°C	D-445	7.5 minimum
Flash Point, COC °F	D-92	182
LBS/GAL @ 60°F	D-1298	7.215
Sulfated Ash, wt%		0.25 maximum
Nitrogen wt%		0.050
Color		Blue/Green
Pour Point, °C	D-97	-39

This product is an advanced technology "smokeless" two-cycle oil formulated from a special blend of mineral oil, synthetic oil and a low ash additive package containing fortified dispersant inhibitors. It also contains a special package of detergents and lubricants exclusive to this formula alone. The end result of this advanced technology is a more thorough burning of the fuel resulting in more power and fewer emissions for a safe operator environment. The special lubricants in the Lucas two-stroke oil allow for a much easier piston travel; this condition allows for more net power, less fuel consumption and less ring and cylinder wear. The user can expect cleaner exhaust ports and spark plugs, less carbon buildup on the piston rings, skirts, crown and under crown areas. Lucas two-stroke oil also contains a special solvent designed to facilitate easy mixing with gasoline at any temperature. It is recommended for all air and liquid cooled two-stroke engines and lower specific output air cooled engines functioning under all operating conditions. It exceeds the requirements for low smoke oils often referred to as "smokeless" oils. It's designed for use with oil injection systems where no oil/fuel premixing is necessary or in premixes of gasoline and oil up to 50:1. Lucas 2-Cycle Racing Oil is especially recommended for situations where maximum performance and engine longevity is essential and situations where prolonged breathing of exhaust fumes could be considered a health hazard.

### SEMI-SYNTHETIC TC-W3® 2-CYCLE LAND & SEA OIL

NMMA® CERTIFIED (RL-00447K)

PRODUCT # 10467, 10469, 10470, 10557, 20467, 20557



TEST	ASTM	TYPICAL
Specific Gravity @ 60°F	D-1298	0.862
API @ 600°F	D-1298	32.7
LBS/GAL @ 60°F	D-1298	7.19
Viscosity @ 100°C, cSt	D-445	7.5
Viscosity @ 40°C, cSt	D-445	41.5
Viscosity Index		141
Flash Point, COC °F	D-92	167
Color		Blue/Green
Pour Point, °C	D-97	-39

Lucas TC-W3® Land & Sea Oil is formulated with the highest quality synthetic and mineral base oils available today and fortified with an ashless detergent inhibitor package to minimize spark plug fouling, pre-ignition, ring sticking and combustion chamber deposits. This Lucas product contains additional performance additives to minimize smoke exhaust and improve piston compression. Our product provides excellent rust protection, improved wear protection and helps your engine run more efficiently and clean. Lucas TC-W3® Land & Sea Oil is designed for use in pre-mixed and injected gasoline 2-cycle engines.

Recommended for outboard motors, personal watercraft, snowmobiles, motorcycles requiring API TC performance, chain saws, 72 golf carts and lawn mowers. NMMA® certified (RL-00447K). Not recommended for 2-cycle engines requiring JASO FC & FD oils.

# SYNTHETIC SNOWMOBILE 2-CYCLE OIL

PRODUCT # 10835, 10847, 20835, 20847

Meets ISO EGD and JASO FD • Exceeds API TC



TEST	ASTM	TYPICAL
Specific Gravity @ 60°F	D-1298	.844
API @ 600°F	D-1298	36.1
Viscosity @ 100°C	D-445	7.5 minimum
Flash Point, COC °F	D-92	175
LBS/GAL @ 60°F	D-1298	7.02
Sulfated Ash, wt%		0.25 maximum
Nitrogen wt%		0.050
Color		Blue/Green
Pour Point, °C (°F)	D-97	-51 (-60)

This product is an advanced technology “smokeless” 2-cycle oil formulated from a special blend of synthetic oils and a low ash additive package containing fortified dispersant inhibitors. It also contains a special package of detergents and lubricants exclusive to this formula alone. The end result of this advanced technology is a more thorough burning of the fuel resulting in more power and fewer emissions for a safe operator environment. The special lubricants in the Lucas Full Synthetic 2-Cycle Snowmobile Oil allow for a much easier piston travel; this condition allows for more net power, less fuel consumption and less ring and cylinder wear. The user can expect cleaner exhaust ports and spark plugs, less carbon buildup on the piston rings, skirts, crown and under crown areas. Excellent for extreme snowmobile applications. Lucas Full Synthetic 2-Cycle Snowmobile Oil also contains a special solvent designed to facilitate easy mixing with gasoline at any temperature. It provides extreme low temperature protection. Lucas Synthetic 2-Cycle Snowmobile Oil is recommended for all air and liquid cooled 2-stroke engines and lower specific output air cooled engines functioning under all operating conditions. It exceeds the requirements for low smoke oils often referred to as “smokeless” oils. It is designed for use with oil injection systems where no oil/fuel premixing is necessary or in premixes of gasoline and oil up to 50:1. Lucas Synthetic 2-Cycle Snowmobile Oil is especially recommended for situations where maximum performance and engine longevity is essential and situations where prolonged breathing of exhaust fumes could be considered a health hazard.

## SYNTHETIC MARINE ATF TYPE FA

PRODUCT # 10651, 10079



TEST	ASTM	TYPICAL
API Gravity	D-1298	36.9
Specific Gravity @ 60°F	D-1298	0.840
Pound per Gallon	D-1298	7.00
Brookfield Viscosity @ -40°C, cps	D-2893	12,000
Color	Visual	Red
Viscosity @ 40°C cSt	D-445	37.7
Viscosity @ 100°C cSt	D-445	7.6
Viscosity Index	D-2270	175
Flash Point, COC °F	D-92	425
Pour Point °C (°F)	D-97	-48 (-54)
Zinc, wt%	X-Ray	0.035

Lucas Marine ATF Fluid Type FA is a blend of high quality synthetic base oils, shear stable VI improvers, oxidation inhibitors, foam inhibitors, antiwear agents, and unique Lucas Oil additives. It is designed to provide high frictional properties to ensure proper shifting and meets or exceeds Ford ESW-M2C33-F and Volvo 97330 specifications. Lucas Marine ATF Fluid Type FA is designed for use in high performance boat transmissions calling out for Ford ESW-M2C33-F fluids. Designed for use in all 1976 and older Ford, Lincoln and Mercury cars, vans and light duty trucks. For use in all 1977 to 1980 Ford cars requiring ATF Type FA fluid. Not recommended for use in Dexron® II, IIE, III, VI, Mercon®, Mercon® V, Mercon® LV, Mercon® SP and Chrysler fluids including ATF+3 and ATF+4. May be used as top off in 1978 and older power steering systems as well as 1980 and older Lincoln Continental power steering systems.

## SYNTHETIC M8 MARINE GEAR OIL SAE 75W-90

PRODUCT # 10652, 10664, 10818



TEST	ASTM	TYPICAL
API Gravity	D-1298	26.8
Specific Gravity @ 60°F	D-1298	.8939
Density @ 60°F LBS/US Gal	D-1298	7.443
Viscosity @ 40°C cSt	D-445	142.0
Viscosity @ 100°C cSt	D-445	18.4
Flash Point, COC °F	D-92	390
Color		Clear Light Amber
Viscosity Index		145
Pour Point, °F (°C)	D-97	-38 (-39)
FZG		12 Stage PASS
Brookfield Viscosity @ -40°C	D-2983	80,000 CPS

Lucas M8 Synthetic SAE 75W-90 Marine Gear Oil is a pure-synthetic, non-foaming, super slick, long lasting lubricant designed especially for marine applications. Contains a special additive package that cushions gears and resists "squeezing out" under extreme pressure situations where other gear lubricants just don't hold up. Improved corrosion resistance and water demulsibility over automotive gear oils. We have improved the high speed shock load and significantly improved anti-wear performance which provides the ultimate protection to the gear components. Specially designed to stand up to high temperatures without losing its lubricity. Excellent for use in stern drives, v-drives, gear boxes, wheel bearings, lower end units and superchargers. Exceeds All API GL Classifications API MT-1, API GL-5, MIL-PRF-2105E, MACK GO-G, PG-2 Limited Slip.

# EXTREME DUTY MARINE SAE 20W-50 ENGINE OIL

PRODUCT # 10653, 10810, 10665, 10666



TEST	ASTM	TYPICAL
API Gravity	D-1298	26.4
Specific Gravity @ 60°F	D-1298	0.896
Density @ 60°F LBS/US Gal	D-1298	7.46
Viscosity @ 40°C, cSt	D-445	166.1
Viscosity @ 100°C, cSt	D-445	19.5
Flash Point COC °F	D-92	425
Color		Amber
Viscosity Index	D-2270	135
CCS @ -15°C, CPS	D-5293	9,500 Max
MRV @ -20°C, CPS	D-4684	60,000 Max
Zinc, WT% (PPM)	X-Ray	0.31 (3100)

Lucas Marine SAE 20W-50 Racing Oil is manufactured with the highest quality paraffinic base oils and is fortified with a unique additive package containing high levels of zinc, molybdenum and phosphorus, which provides a tougher, thicker additive film for maximum protection even under the most severe conditions. It lowers oil temperatures, extends oil life and minimizes metal fatigue. It improves the film strength between the cylinder wall and piston rings and slows oil burning and improves pressure in worn engines. It has good cold temperature properties and stands up to high operating temperatures. Lucas Marine SAE 20W-50 is compatible with methanol and all racing fuels. It is compatible with synthetic and non-synthetic oils. Lucas Marine SAE 20W-50 Racing Oil is designed for use in high performance boats requiring the ultimate protection. If you need extra thermal protection and want to extend the life of your oil, try our Marine Semi-Synthetic SAE 20W-50 Racing Oil. Not recommended for passenger car use.

# EXTREME DUTY MARINE SEMI-SYNTHETIC SAE 20W-50 ENGINE OIL

PRODUCT # 10654, 10811, 10667, 10668



TEST	ASTM	TYPICAL
API Gravity	D-1298	29.56
Specific Gravity @ 60°F	D-1298	0.879
Density @ 60°F LBS/US Gal	D-1298	7.32
Viscosity @ 40°C, cSt	D-445	157.7
Viscosity @ 100°C, cSt	D-445	20.5
Flash Point COC °F	D-92	420
Color		Amber
Viscosity Index	D-2270	152
CCS @ -15°C, CPS	D-5293	9,500 Max
MRV @ -20°C, CPS	D-4684	60,000 Max
Zinc, WT% (PPM)	X-Ray	0.31 (3100)

Lucas Marine Semi-Synthetic SAE 20W-50 Racing Oil is fortified with a unique additive package containing high levels of zinc, molybdenum and phosphorus, which provides a tougher, thicker additive film for maximum protection even under the most severe conditions. It lowers oil temperatures, extends oil life and minimizes metal fatigue. It improves the film strength between the cylinder wall and piston rings and slows oil burning and improves pressure in worn engines. It has excellent cold temperature properties and stands up to high operating temperatures. Lucas Marine Semi-Synthetic SAE 20W-50 is compatible with methanol and all racing fuels. It is compatible with synthetic and non-synthetic oils. Lucas Marine Semi-Synthetic SAE 20W-50 Racing Oil is designed for use in high performance boats requiring the ultimate protection. Not recommended for passenger car use.

# SYNTHETIC SAE 10W-30 4-STROKE OUTBOARD ENGINE OIL

**CATALYST COMPATIBLE**

PRODUCT # 10661, 10812, 20661

NMMA® CERTIFICATION # FC-00807L



TEST	ASTM	TYPICAL
API Gravity	D-1298	33.03
Specific Gravity @ 60°F	D-1298	0.860
Density @ 60°F LBS/Gal	D-1298	7.16
Color	D-1500	2.5
Viscosity @ 40°C, cSt	D-445	78.5
Viscosity @ 100°C, cSt	D-445	12.1
Viscosity Index	D-2270	150
Flash Point COC °F	D-92	464
CCS @ -25°C, CPS	D-5293	5,380
MRV @ -30°C, CPS	D-4684	15,500
TBN Mg KOH/ml	D-2896	8.0
Phosphorus, WT%	D-4951	0.074
Zinc, WT%	D-4951	0.082

Lucas Synthetic 4-Stroke Outboard SAE 10W-30 Engine Oil is designed to improve wear protection and increase catalyst life in newer outboards using catalytic converters. Meets or exceeds NMMA® FC-W (CAT) performance. Meets JASO MA performance for air cooled motorcycles and all-terrain vehicles. Can be used in automotive applications where API SM oils are called out for. Also has applications in inboards and 4-stroke personal watercraft. Lucas Synthetic 4-Stroke Outboard SAE 10W-30 Engine Oil is fortified with special synthetic additives that coat all moving parts to guard against rust and moisture during long storage periods.

# SYNTHETIC SAE 10W-40 4-STROKE OUTBOARD ENGINE OIL

**CATALYST COMPATIBLE**

PRODUCT # 10662, 10813, 20662

NMMA® CERTIFICATION # FC-00806L



TEST	ASTM	TYPICAL
API Gravity	D-1298	33.0
Specific Gravity @ 60°F	D-1298	0.860
Density @ 60°F LBS/Gal	D-1298	7.16
Color	D-1500	2.5
Viscosity @ 40°C, cSt	D-445	96.1
Viscosity @ 100°C, cSt	D-445	14.5
Viscosity Index	D-2270	156
Flash Point COC °F	D-92	464
CCS @ -25°C, CPS	D-5293	6,163
MRV @ -30°C, CPS	D-4684	20,500
TBN Mg KOH/ml	D-2896	8.0
Phosphorus, WT%	D-4951	0.074
Zinc, WT%	D-4951	0.082

Lucas Synthetic 4-Stroke Outboard SAE 10W-40 Engine Oil is designed to improve wear protection and increase catalyst life in newer outboards using catalytic converters. Meets or exceeds NMMA® FC-W (CAT) performance. Meets JASO MA performance for air cooled motorcycles and all-terrain vehicles. Can be used in automotive applications where API SM oils are called out for. Also has applications in inboards and 4-stroke personal watercraft. Lucas Synthetic 4-Stroke Outboard SAE 10W-40 Engine Oil is fortified with special synthetic additives that coat all moving parts to guard against rust and moisture during long storage periods.

# SAE 25W-40 4-STROKE MARINE ENGINE OIL

**CATALYST COMPATIBLE**

PRODUCT # 10677, 10814, 10693, 10694, 20677

NMMA® CERTIFICATION # FC-00812M



TEST	ASTM	TYPICAL
API Gravity	D-1298	28.21
Specific Gravity @ 60°F	D-1298	0.886
Density @ 60°F LBS/Gal	D-1298	7.38
Color	D-1500	2.5
Viscosity @ 40°C, cSt	D-445	159.4
Viscosity @ 100°C, cSt	D-445	15.5
Viscosity Index	D-2270	103
Flash Point COC °F	D-92	516
CCS @ -10°C, CPS	D-5293	13,000 max
MRV @ -15°C, CPS	D-4684	60,000 max
TBN Mg KOH/g	D-2896	8.0
Phosphorus, WT%	D-4951	0.074
Zinc, WT%	D-4951	0.082

Lucas 4-Stroke Marine Engine Oil SAE 25W-40 is designed to improve wear protection and increase catalyst life in newer inboards using catalytic converters. Meets or exceeds NMMA® FC-W (CAT) performance. Can be used in automotive applications where API SM oils are called out for. It has applications in 4-stroke outboards and 4-stroke personal watercraft. Lucas SAE 25W-40 4-Stroke Marine Engine Oil is fortified with special synthetic additives that coat all moving parts to guard against rust, corrosion and moisture during long storage periods. Meets or exceeds MERCUISER® stern drive and inboard marine performance requirements.

# MARINE FUEL TREATMENT

PRODUCT # 10151, 10177, 10981



TEST	ASTM	TYPICAL
API Gravity	D-1298	32.7
Specific Gravity @ 60°F	D-1298	0.857
Density @ 60°F Lbs/US Gal	D-1298	7.15
Flash Point, PMCC °F	D-93	160
Viscosity @ 40°C cSt	D-445	24
Color	Visual	Light Blue

Lucas Marine Fuel Treatment is designed specifically to address the issues watercraft owners experience with their engines and fuel systems. Lucas Marine Fuel Treatment fights corrosion, keeps fuel lines, carburetors or fuel injectors clean and free of deposits while lubricating and protecting vital engine parts. Powerful detergents, including polyether amines, improve cleanliness in the fuel system and internal engine parts. It's designed for gasoline and diesel engines, 4-stroke or 2-stroke. Upper cylinder lubricants insure smooth operation and longer engine life. Add approximately 3 fluid ounces for every 10 gallons of fuel before or after fueling.

# SYNTHETIC BLEND 2-CYCLE MARINE OIL TC-W3®

NMMA® CERTIFIED (RL-13125P)

PRODUCT # 10860, 10861, 10863



TEST	ASTM	TYPICAL
Specific Gravity @ 60°F	D-1298	0.862
API @ 600°F	D-1298	32.7
LBS/GAL @ 60°F	D-1298	7.19
Viscosity @ 100°C, cSt	D-445	7.5
Viscosity @ 40°C, cSt	D-445	41.5
Viscosity Index		141
Flash Point, COC °F	D-92	167
Color		Blue/Green
Pour Point, °C	D-97	-39

Lucas Synthetic Blend 2-Cycle Marine Oil TC-W3® is formulated with the highest quality synthetic and mineral base oils available today and fortified with an ashless detergent inhibitor package to minimize spark plug fouling, pre-ignition, ring sticking and combustion chamber deposits. This Lucas product contains additional performance additives to minimize smoke exhaust and improve piston compression. Our product provides excellent rust protection, improved wear protection and helps your engine run more efficiently and clean. Lucas Synthetic Blend 2-Cycle Marine Oil TC-W3® is designed for use in pre-mixed and injected gasoline 2-cycle engines. Recommended for outboard motors, personal watercraft, snowmobiles, motorcycles requiring API TC performance, chain saws, golf carts and lawn mowers. NMMA® certified (RL-13125P). Not recommended for 2-cycle engines requiring JASO FC & FD oils.

# FISHING REEL OIL

PRODUCT # 10690, 10959



TEST	ASTM	TYPICAL
API Gravity	D-1298	26.4
Specific Gravity @ 60°F	D-1298	.8961
Density @ 60°F LBS/US GAL	D-1298	7.462
Viscosity @ 100°C cSt	D-445	8.0
Flash Point, COC °F	D-92	425
Color		Aqua Blue
Neutralization Number	D-664	.02
Ash - Wt %		Nil
Sulphur - Wt%		0.01
Solvents		None

Lucas Fishing Reel Oil is a special blend of oil and additives. It was specifically designed to lubricate all moving parts in fresh water and salt water fishing reels. Lucas Fishing Reel Oil provides rust and corrosion protection even under the most adverse conditions. Our new one-drop application allows you to put just the right amount of lubricant into hard to reach areas; you cannot over lubricate.

# MARINE GREASE

## NLGI #2 GC/LB

PRODUCT # 10320, 10321, 10322, 10660, 10682, 11048



TEST	ASTM	TYPICAL
Thickener Type		OBCS (Overbased) Calcium Sulfonate)
Texture		Smooth, Tacky
Color		Deep Blue
Penetration		
0 Strokes	D-217	280
60 Strokes	D-217	280
High Temperature Wheel Life	D-3527	80
Timken OK Load, lbs	D-2509	65
Rust Prevention	D-1743	Pass
Water Wash-Out, % Loss	D-1264	
Test % Loss @ 175°F		2.75
Four Ball E.P. Test	D-2596	
Weld Point, Kg		500
Load Wear Index, Kgf		65
Four Ball Wear Test D, mm	D-2266	0.39
Oil Separation, Mass % Loss	D-1742	0
Leakage Tendency, g	D-4290	1.3
Oxidation Stability	D-942	10 Max @1000 hrs
Dropping Point, °F	D-2265	572
Fretting Protection, mg	D-4170	4.2
Base Oil Viscosity	D-445	
cSt @ 40°C		120
cSt @ 100°C		13
Viscosity Index		95 mm
Low Temperature Torque, -40°C Nm	D-4693	15.5 Max

Lucas Marine Grease is a premium grease of the overbased calcium sulfonate type with inherently superior corrosion resistance, resistance to water washout, mechanical stability and extreme pressure lubrication. Due to these properties, it is ideally suited for marine applications where these important properties are intrinsic to the grease and not the result of fortification with additives. Additionally, Lucas Marine Grease has excellent load-carrying capacity and resistance to oxidation. It contains no heavy metals (e.g. lead, arsenic or antimony) or other environmentally harmful additives such as phosphorus, chlorine or zinc. Lucas Marine Grease meets NLGI Certification GC-LB. Not recommended for centralized dispensing systems requiring NLGI consistency number of 1 or less.



# **MARINE SLICK MIST® SPEED WAX**

**PRODUCT # 10690**

<b>TEST</b>	<b>ASTM</b>	<b>TYPICAL</b>
<b>Specific Gravity @ 60°F</b>	<b>D-1298</b>	<b>1.0</b>
<b>Density @ 60°F LBS/US Gal</b>	<b>D-1298</b>	<b>8.328</b>
<b>Flash Point, COC °F</b>	<b>D-92</b>	<b>Non-Flammable</b>
<b>Color</b>	<b>Visual</b>	<b>Aqua</b>
<b>pH</b>		<b>6 - 7</b>
<b>Odor</b>		<b>Bubble Gum</b>
<b>Pour Point, °F</b>	<b>D-97</b>	<b>32 (Avoid Freezing)</b>

Lucas Slick Mist® is a unique speed wax developed to quickly detail your boat, car, motorcycle, ATV, truck, and airplane, and leave your paint with a showroom shine. Lucas Slick Mist® is designed to be used on wet or dry surfaces, even in direct sunlight, and provides excellent UV protection. Excellent for all vinyl wraps and decals, and helps keep mud, bugs and tar from sticking to the surface. Safe for use with leather, plastic or aluminum surfaces. For best results, shake bottle well prior to use, apply a fine spray and wipe dry with a soft terry cloth towel, chamois or micro fiber towel. **ATTENTION:** Do not use any Slick Mist® products on floors, vehicle controls (pedals, grips, steering wheels), motorcycle seats or tire treads, bicycles seats or tire treads, brake drums and any other surfaces where slipperiness may be hazardous.

## UNIVERSAL HYDRAULIC & TRANSMISSION FLUID

PRODUCT # 10017, 10037, 10038, 10304, 20017



TEST	ASTM	TYPICAL
API Gravity	D-1298	27.8
Specific Gravity @ 60°F	D-1298	.8883
Density @ 60°F LBS/US Gal	D-1298	7.398
Viscosity @ 40°C cSt	D-445	60.0
Viscosity @ 100°C cSt	D-445	9.0
Viscosity Index		128
Pour Point, °C (°F)	D-97	-42 (-44)
Color		Clear Yellow
Flash Point, COC °F	D-92	470

A multipurpose powershift transmission/hydraulic fluid intended for a wide range of power driven equipment. Exceeds performance requirements for agricultural, construction and other off-highway and industrial equipment. Meets all OEM specifications for powershift transmissions including gears, pumps, differentials, final drives, bearings, wet brakes, transmissions and PTO clutch applications. Meets and exceeds JOHN DEERE specifications J20A, J20B, J20C, J20D and Hy-Gard. Lucas Universal Hydraulic & Transmission Fluid is blended with the highest quality base oils and the highest quality additive package. It is further fortified with the following additives and ingredients that assures equipment owners and operators of reduced down-time and extended equipment life:

- Seal Conditioning Additive - Keeps seals soft and pliable, preventing them from hardening and cracking
- Extreme Pressure Additive - Should the oil film rupture during shock loads or over loads, the extreme pressure additives take over, preventing metal to metal contact
- Adhesive and Cohesive Additives - Retards splattering and dripping, makes oil cling tenaciously to gears, bearings, bushings and other metal parts
- Special Blend of Polymers - These add lubricity to the oil and transfer heat immediately to the casing for dissipation. This cooler operating condition allows for longer life of the components, as well as longer life of the oil itself

## SYNTHETIC UNIVERSAL HYDRAULIC FLUID

PRODUCT # 10100, 10524, 10851

TEST	ASTM	TYPICAL
API Gravity	D-1298	35.5
Specific Gravity @ 60°F	D-1298	.8473
Density @ 60°F LBS/US Gal	D-1298	7.055
Viscosity @ 40°C cSt	D-445	56.9
Viscosity @ 100°C cSt	D-445	10.5
Viscosity Index		178
Pour Point °C (°F)		-45 (-49)
Color		Amber
Flash Point, COC °F	D-92	470

Lucas Synthetic Universal Hydraulic Fluid is a blend of the finest synthetic base stocks and a Lucas additive package that meets or exceeds the most stringent manufacturers' specifications, including Caterpillar TO2. The user can expect longer fluid life and longer component life. He can expect more hydraulic pressure, faster response and smoother operation. Lucas Synthetic Universal Hydraulic Fluid is blended under ultra clean conditions and passed through a finite filtration system that guarantees it to be clean of any foreign matter. Lucas Synthetic Universal Hydraulic Fluid is designed for all temperature extremes. It eliminates the need for warm-up time in extreme cold temperatures. It also eliminates slippage, loss of pressure; premature oil breakdown and component wear due to higher than normal operating temperatures.

# HYDRAULIC OIL BOOSTER & STOP LEAK

PRODUCT # 10018, 10019, 10039, 10040, 20018, 20019



TEST	ASTM	TYPICAL
API Gravity	D-1298	21.4
Specific Gravity	D-1298	.9254
Density @ 60°F LBS/US Gal	D-1298	7.706
Viscosity @ 40°C cSt	D-445	875
Viscosity @ 100°C cSt	D-445	41.0
Viscosity Index		79
Color		Red
Flash Point, COC °C/°F	D-92	185/365
Fire Point, COC °C/°F	D-92	219/427
Pour Point, °C/°F	D-97	-18/0
Neutralization No. mg/KOH/g	D-664	.04
Sulfur W%	D-4294	.621
Conradson Carbon W%	D-100	.213
Aniline Point °C	D-97	70.0
Characteristic Groups W%	D-2007	
Asphaltenes		0.0
Polar Compound		2.88
Aromatics		41.4
Saturates		45.7
Rust Test 24 Hrs (A&B)	D-665	Pass
Dielectric Strength	D-877	25.1 kV
Oxidation Test	D-943	Pass

Lucas Hydraulic Oil Booster & Stop Leak is a one of a kind, long lasting blend of oils and petroleum extracted additives that add lubricity and thermal stability to any hydraulic oil. Lucas Hydraulic Oil Booster & Stop Leak is an excellent preventative maintenance product at a treat rate of only about 5%, adding life to pumps, rams, seals and the treated hydraulic fluid. This product is unsurpassed at correcting existing problems. A 10% to 20% treat rate is usually all that is needed to stop all seal leaks. A 10% to 20% addition is usually all that's needed to restore full hydraulic pressure to a worn system. It also removes varnish from wet brakes and stops slip in automatic transmissions. It is impregnated with anti-foam agents.

## SYNTHETIC SHOCK OILS 5 & 10

SHOCK OIL 5 - PRODUCT # 10235, 10236, 10237, 10238, 10239, 10240  
SHOCK OIL 10 - PRODUCT # 10241, 10242, 10243, 10244, 10245, 10246

TEST	ASTM	5	10
API Gravity	D-1298	37.2	36.3
Specific Gravity @ 60°F	D-1298	.8383	.8433
Density @ 60°F LBS/US Gal	D-1298	6.980	7.022
Viscosity @ 40°C cSt	D-445	19.70	34.5
Viscosity @ 100°C cSt	D-445	4.5	7.6
VI		148	200
Flash Point, COC °F	D-92	390	420
Color		Clear	Clear

Lucas Synthetic Shock Oils 5 & 10 are a formulation of specific synthetic base shock and a Lucas additive package designed for high impact off-road race vehicles. Because of the stability and high lubricity of the oil, the user can expect precise action, lower temperatures, less bending and much longer shock life.

# **ANTI-WEAR HYDRAULIC OIL**

## **ISO 32, 46, 68 GRADES**

ISO 32 PRODUCT # 10401, 10402, 10403, 10414

ISO 46 PRODUCT # 10404, 10405, 10406, 10415

ISO 68 PRODUCT # 10407, 10408, 10409, 10416

GRADE, ISO	ASTM	32	46	68
<b>API Gravity</b>	<b>D-1298</b>	<b>32.74</b>	<b>32.24</b>	<b>33.8</b>
<b>Specific Gravity @ 60°F</b>	<b>D-1298</b>	<b>.862</b>	<b>.864</b>	<b>.856</b>
<b>Density @ 60°F LBS/US Gal</b>	<b>D-1298</b>	<b>7.18</b>	<b>7.21</b>	<b>7.13</b>
<b>Viscosity @ 40°C cSt</b>	<b>D-445</b>	<b>32</b>	<b>46</b>	<b>68</b>
<b>Color</b>	<b>D-1500</b>	<b>0.5</b>	<b>0.5</b>	<b>0.5</b>
<b>Flash Point, COC °F</b>	<b>D-92</b>	<b>450</b>	<b>450</b>	<b>450</b>
<b>Pour Point, °C (°F)</b>	<b>D-97</b>	<b>-36 (-33)</b>	<b>-33 (-27)</b>	<b>-30 (-22)</b>

Lucas Anti-wear Hydraulic Oils are manufactured with the highest quality paraffinic base oils and special Lucas additives to provide maximum hydraulic service performance. Our product provides excellent wear protection in critical hydraulic pump parts and eliminates rust and corrosion problems as well as minimizes foam. Our product has excellent demulsibility properties. Lucas Anti-wear Hydraulic Oils are designed for use in hydraulic systems operating over 1,000 psi. Our oils can be used in all pump designs including vane, gear, axial and radial pumps. Lucas Anti-wear Hydraulic Oils are designed for use in machine tools, presses, die casting, airline lubricators, reciprocating air compressors, circulating systems, hydraulic control systems and plain and anti-friction bearings. Meets the performance requirements of all major hydraulic pump manufacturers including: Denison HF-O, HF-2, Vickers I-286-S and M-2950S. Meets industrial specifications: U.S. Steel 127, 136 and DIN 51524 Part II.

# **ANTI-WEAR HYDRAULIC OIL**

## **ISO 150**

PRODUCT # 10672

TEST	ASTM	TYPICAL
<b>API Gravity</b>	<b>D-1298</b>	<b>29.3</b>
<b>Specific Gravity @ 60°F</b>	<b>D-1298</b>	<b>0.880</b>
<b>Density @ 60°F, LBS/US Gal</b>	<b>D-1298</b>	<b>7.33</b>
<b>Viscosity @ 40°C cSt</b>	<b>D-445</b>	<b>150</b>
<b>Color</b>	<b>D-1500</b>	<b>0.5</b>
<b>Flash Point, COC °F</b>	<b>D-92</b>	<b>450</b>
<b>Pour Point, °C (°F)</b>	<b>D-97</b>	<b>-30 (-22)</b>

Lucas Anti-wear Hydraulic Oil ISO 150 is manufactured with the highest quality paraffinic base oils and special Lucas additives to provide maximum hydraulic service performance. Our product provides excellent wear protection in critical hydraulic pump parts and eliminates rust and corrosion problems as well as minimizes foam. Our product has excellent demulsibility properties. Lucas Anti-wear Hydraulic Oil ISO 150 is designed for use in hydraulic systems operating over 1,000 psi. Our oils can be used in all pump designs including vane, gear, axial and radial pumps. Lucas Anti-wear Hydraulic Oil ISO 150 is designed for use in machine tools, presses, die casting, airline lubricators, reciprocating air compressors, circulating systems, hydraulic control systems and plain and anti-friction bearings. Meets the performance requirements of all major hydraulic pump manufacturers including: Denison HF-O, HF-2, Vickers I-286-S and M-2950S. Meets industrial specifications: U.S. Steel 127, 136 and DIN 51524 Part II.

# **R&O INDUSTRIAL OIL**

## **ISO 32, 46, 68 GRADES**

ISO 32 PRODUCT # 10447, 10449

ISO 46 PRODUCT # 10450, 10452

ISO 68 PRODUCT # 10453, 10455

<b>GRADE, ISO</b>	<b>ASTM</b>	<b>32</b>	<b>46</b>	<b>68</b>
<b>API Gravity</b>	<b>D-1298</b>	<b>32.8</b>	<b>31.9</b>	<b>34.0</b>
<b>Specific Gravity @ 60°F</b>	<b>D-1298</b>	<b>.861</b>	<b>.866</b>	<b>.855</b>
<b>Density @ 60°F LBS/US Gal</b>	<b>D-1298</b>	<b>7.17</b>	<b>7.21</b>	<b>7.12</b>
<b>Viscosity @ 40°C cSt</b>	<b>D-445</b>	<b>32</b>	<b>46</b>	<b>68</b>
<b>Color</b>	<b>D-1500</b>	<b>0.5</b>	<b>0.5</b>	<b>0.5</b>
<b>Flash Point, COC °F</b>	<b>D-92</b>	<b>425</b>	<b>425</b>	<b>440</b>
<b>Pour Point, °C (°F)</b>	<b>D-97</b>	<b>-36 (-33)</b>	<b>-33 (-27)</b>	<b>-30 (-22)</b>

Lucas R&O Industrial Oils are manufactured with the highest quality paraffinic base oils and special Lucas additives to provide excellent rust, corrosion and oxidation protection. Excellent demulsibility allows product to separate from water quickly. Our product contains effective foam inhibitors to stop foaming. Lucas R&O Industrial Oils are designed for use in air compressors and hydraulic systems operating under 1,000 psi that do not require antiwear additives. Our product also has applications in plain and antifriction bearings, vacuum pumps, electric motors as well as centrifugal, turbine and deep well pumps. It truly functions as a general purpose lubricant. Improved cold temperature properties.

## **MULTI-VISCOSITY ANTI-WEAR**

### **HYDRAULIC OIL ISO 32**

PRODUCT # 10577

<b>TEST</b>	<b>ASTM</b>	<b>TYPICAL</b>
<b>API Gravity</b>	<b>D-1298</b>	<b>39.19</b>
<b>Specific Gravity @ 60°F</b>	<b>D-1298</b>	<b>0.829</b>
<b>Lb / Gallon</b>	<b>D-1298</b>	<b>6.91</b>
<b>Color</b>	<b>D-1500</b>	<b>1.0</b>
<b>Viscosity @ 40°C, cSt</b>	<b>D-445</b>	<b>32</b>
<b>Viscosity @ 100°C, cSt</b>	<b>D-445</b>	<b>7.8</b>
<b>Viscosity Index</b>	<b>D-2270</b>	<b>236</b>
<b>Flash Point, COC °F</b>	<b>D-92</b>	<b>428</b>
<b>Pour Point, °C</b>	<b>D-97</b>	<b>-60</b>

Lucas Multi-Viscosity AW Hydraulic Oil ISO 32 is a premium product blended with highest quality synthetic base stocks and Lucas special additives to provide anti-wear protection and maximum performance. The extremely high viscosity index and low pour point permit this fluid to be used in wide operating temperatures. Recommended for use in mobil construction equipment, vane, gear, and piston type hydraulic pumps. Suitable for use in all industrial hydraulic systems operating up to 3000 psi. Can also be used in plain and anti-friction bearings, airline lubricators and reciprocating air compressors.

# ***NON-CONDUCTIVE ANTI-WEAR HYDRAULIC OIL ISO 22***

PRODUCT # 10691, 10692

TEST	ASTM	TYPICAL
<b>API Gravity</b>	<b>D-1298</b>	<b>37.7</b>
<b>Specific Gravity @ 60°F</b>	<b>D-1298</b>	<b>0.837</b>
<b>Density @ 60°F, Lbs/US Gal</b>	<b>D-1298</b>	<b>6.97</b>
<b>Color</b>	<b>D-1500</b>	<b>0.5</b>
<b>Flash Point, COC °F</b>	<b>D-92</b>	<b>425</b>
<b>Viscosity @ 40°C cSt</b>	<b>D-445</b>	<b>22</b>
<b>Pour Point, °C</b>	<b>D-97</b>	<b>-21</b>
<b>Foaming Tendency SEQ II</b>	<b>D-892</b>	<b>0/0</b>
<b>Dielectric Strength, kV</b>	<b>D-877</b>	<b>38</b>

Lucas Non-Conductive Anti-wear Hydraulic Oil ISO 22 is formulated with pure base oils and an additive chemistry that provides excellent oxidative and thermal stability. It provides excellent wear protection and reduces deposits and sludge. It contains an effective foam inhibitor which minimizes foam. Dielectric strength of 38 kV makes it an excellent non-conductive fluid. The minimum value required is 35 kV. Dielectric strength is extremely sensitive to humidity and contamination. Once the containers are opened, the dielectric strength cannot be expected to remain at its original value. Containers should be kept tightly sealed and stored in a dry environment. Our product is recommended for use wherever non-conductive fluids are required. Typical uses include cherry pickers and firetruck snorkels. High flash point reduces danger of fire.

# ***NON-CONDUCTIVE ANTI-WEAR HYDRAULIC OIL ISO 46***

PRODUCT # 10917

TEST	ASTM	TYPICAL
<b>API Gravity</b>	<b>D-1298</b>	<b>35.3</b>
<b>Specific Gravity @ 60°F</b>	<b>D-1298</b>	<b>0.848</b>
<b>Density @ 60°F, Lbs/US Gal</b>	<b>D-1298</b>	<b>7.06</b>
<b>Color</b>	<b>D-1500</b>	<b>0.5</b>
<b>Flash Point, COC °F</b>	<b>D-92</b>	<b>493</b>
<b>Viscosity @ 40°C cSt</b>	<b>D-445</b>	<b>46</b>
<b>Pour Point, °C</b>	<b>D-97</b>	<b>-15</b>
<b>Foaming Tendency SEQ II</b>	<b>D-892</b>	<b>0/0</b>
<b>Dielectric Strength, kV</b>	<b>D-877</b>	<b>45</b>

Lucas Non-Conductive Anti-wear Hydraulic Oil ISO 46 is formulated with pure base oils and an additive chemistry that provides excellent oxidative and thermal stability. It provides excellent wear protection and reduces deposits and sludge. It contains an effective foam inhibitor which minimizes foam. Dielectric strength of 45 kV makes it an excellent non-conductive fluid. The minimum value required is 35 kV. Dielectric strength is extremely sensitive to humidity and contamination. Once the containers are opened, the dielectric strength cannot be expected to remain at its original value. Containers should be kept tightly sealed and stored in a dry environment. Our product is recommended for use wherever non-conductive fluids are required. Typical uses include cherry pickers and firetruck snorkels. High flash point reduces danger of fire.

# HEAVY DUTY TRANS/DRIVE TRAIN OIL SAE 10W

PRODUCT # 10585, 10586, 10587, 10588

TEST	ASTM	TYPICAL
API Gravity	D-1298	29.1
Specific Gravity @ 60°F	D-1298	0.881
Density @ 60°F Lbs/Gal	D-1298	7.34
Flash Point, °F	D-92	470
Pour Point, °F	D-97	-15
Viscosity @ 40°C, cSt	D-445	55.1
Viscosity @ 100°C, cSt	D-445	7.8
Viscosity Index	D-2270	106
Color	D-1500	3.5
Sulfated Ash	D-874	1.6
Brookfield Viscosity @ -35°C, CP	D-2983	45,000 150,000 Max

LUCAS HEAVY DUTY TRANS/DRIVE TRAIN OIL SAE 10W is formulated to meet Caterpillar TO-4 specification as well as Allison C-4 and Komatsu Micro-Clutch specifications. It is designed for use in Caterpillar power shift transmissions, clutches, brakes, final drives, bevel gears and differentials. This product is formulated with unique Lucas Oil additive systems to provide the highest performance for extended oil life. LUCAS HEAVY DUTY TRANS/DRIVE TRAIN OIL SAE 10W has excellent low temperature properties, shear stability and oxidative stability. It minimizes foam and provides excellent copper corrosion and rust protection.

# HEAVY DUTY TRANS/DRIVE TRAIN OIL SAE 30

PRODUCT # 10443, 10444, 10445, 10446

TEST	ASTM	TYPICAL
API Gravity	D-1298	30.4
Specific Gravity @ 60°F	D-1298	0.870
Density @ 60°F Lbs/Gal	D-1298	7.28
Flash Point, °F	D-92	470
Pour Point, °F	D-97	-12
Viscosity @ 40°C, cSt	D-445	64.2
Viscosity @ 100°C, cSt	D-445	10.8
Viscosity Index	D-2270	160
Color	D-1500	4.0
Sulfated Ash	D-874	1.6
Brookfield Viscosity @ -25°C, CP	D-2983	150,000 Max

LUCAS HEAVY DUTY TRANS/DRIVE TRAIN OIL SAE 30 is formulated to meet Caterpillar TO-4 specification as well as Allison C-4 and Komatsu Micro-Clutch specifications. It is designed for use in Caterpillar power shift transmissions, clutches, brakes, final drives, bevel gears and differentials. This product is formulated with unique Lucas Oil additive systems to provide the highest performance for extended oil life. LUCAS HEAVY DUTY TRANS/DRIVE TRAIN OIL SAE 30 has excellent low temperature properties, shear stability and oxidative stability. It minimizes foam and provides excellent copper corrosion and rust protection.

# **HEAVY DUTY TRANS/DRIVE TRAIN OIL SAE 50**

PRODUCT # 10671

TEST	ASTM	TYPICAL
API Gravity	D-1298	27.1
Specific Gravity @ 60°F	D-1298	0.892
Density @ 60°F Lbs/Gal	D-1298	7.44
Flash Point, °F	D-92	470
Pour Point, °F	D-97	0 (-18)
Viscosity @ 40°C, cSt	D-445	198
Viscosity @ 100°C, cSt	D-445	19.0
Viscosity Index	D-2270	109
Color	D-1500	4.5
Sulfated Ash	D-874	1.6
Brookfield Viscosity @ -15°C, CP	D-2983	150,000 Max

LUCAS HEAVY DUTY TRANS/DRIVE TRAIN OIL SAE 50 is formulated to meet Caterpillar TO-4 specification as well as Allison C-4 and Komatsu Micro-Clutch specifications. It is designed for use in Caterpillar power shift transmissions, clutches, brakes, final drives, bevel gears and differentials. This product is formulated with unique Lucas Oil additive systems to provide the highest performance for extended oil life. LUCAS HEAVY DUTY TRANS/DRIVE TRAIN OIL SAE 50 has excellent low temperature properties, shear stability and oxidative stability. It minimizes foam and provides excellent copper corrosion and rust protection.

# **SYNTHETIC COMPRESSOR OIL ISO 32, 46, 68 GRADES**

ISO 32 PRODUCT # 10836

ISO 46 PRODUCT # 10497, 10498, 10499

ISO 68 PRODUCT # 10837

GRADE, ISO	ASTM	32	46	68
API Gravity	D-1298	38.1	38.0	38.1
Specific Gravity @ 60°F	D-1298	0.834	0.835	0.840
Density @ 60°F, Lbs/US Gal	D-1298	6.95	6.96	6.99
Color	D-1500	0.5	0.5	0.5
Flash Point, COC °F	D-92	450	450	450
Viscosity @ 40°C cSt	D-445	32	46	68
Viscosity @ 100°C, cSt	D-445	6.6	8.8	11.3
Viscosity Index		165	175	160
Pour Point, °C	D-97	-40	-40	-40
Foaming Tendency SEQ II	D-892	20/0	20/0	20/0

Lucas Synthetic Compressor Oils are high quality, 100% synthetic lubricants based on PAO/diester technology. They offer extended service life in rotary screw compressors and reduce deposits in single and multi-stage reciprocating air compressors. Lucas Synthetic Compressor Oils provide excellent oxidative and thermal stability. They provide excellent wear protection and reduce deposits and sludge. Lucas unique formula reduces foam and minimizes air entrainment.



## SLICK MIST® SPEED WAX

PRODUCT # 10160, 10161, 20160

TEST	ASTM	TYPICAL
Specific Gravity @ 60°F	D-1298	1.0
Density @ 60°F LBS/US Gal	D-1298	8.328
Flash Point, COC °F	D-92	Non-Flammable
Color	Visual	Aqua
pH		6 - 7
Odor		Bubble Gum
Pour Point, °F	D-97	32 (Avoid Freezing)

Lucas Slick Mist® is a unique speed wax developed to quickly detail your car, motorcycle, ATV, truck, boat and airplane, and leave your paint with a showroom shine. Slick Mist® is used by professional auto show vehicle detailers and racing professionals who demand the ultimate performance. Lucas Slick Mist® is designed to be used on wet or dry surfaces, even in direct sunlight, and provides excellent UV protection. Excellent for all vinyl wraps and decals, and helps keep mud, bugs and tar from sticking to your vehicle. Safe for use with leather, plastic or aluminum surfaces. For best results, shake bottle well prior to use, apply a fine spray and wipe dry with a soft terry cloth towel, chamois or micro fiber towel. ATTENTION: Do not use any Slick Mist® products on floors, vehicle controls (pedals, grips, steering wheels), motorcycle seats or tire treads, bicycles seats or tire treads, brake drums and any other surfaces where slipperiness may be hazardous.



## SLICK MIST® INTERIOR DETAILER

PRODUCT # 10514, 20514

TEST	ASTM	TYPICAL
Appearance	Visual	Creamy
Specific Gravity @ 60°F	D-1298	0.9859
Density @ 60°F LBS/US Gal	D-1298	8.211
Flash Point, COC °F	D-92	Non-Flammable
Color	Visual	Slight Blue
pH		7 - 8.3
Odor		Bubble Gum
Pour Point, °F	D-97	32 (Avoid Freezing)
VOC		Compliant

Lucas Interior Detailer is a unique water based formula developed to quickly detail your entire interior. Lucas Interior Detailer is used by professional auto show vehicle detailers and racing professionals who demand the ultimate performance. Lucas Interior Detailer removes dust, dirt, oils and does not leave any oily residue. It is safe for use on plastic, vinyl, leather, rubber, metal, and aluminum surfaces. It cleans and protects side door panels, dashboards, consoles, leather seats, steering wheel and interior trim. It is long lasting and UV resistant; it revitalizes your interior. For best results, shake bottle well prior to use. Spray generously on interior surfaces, let sit and then wipe away with a soft terry cloth towel, chamois, micro fiber towel or sponge applicator. ATTENTION: Do not use any Slick Mist® products on floors, vehicle controls (pedals, grips, steering wheels), motorcycle seats or tire treads, bicycles seats or tire treads, brake drums and any other surfaces where slipperiness may be hazardous.



# SLICK MIST® TIRE & TRIM SHINE

PRODUCT # 10104, 10513, 20513

TEST	ASTM	TYPICAL
Appearance	Visual	Creamy
Specific Gravity @ 60°F	D-1298	0.9859
Density @ 60°F LBS/US Gal	D-1298	8.211
Flash Point, COC °F	D-92	Non-Flammable
Color	Visual	Off White
pH		7 - 8.3
Odor		Citrus
Pour Point, °F	D-97	32 (Avoid Freezing)
VOC		Compliant

Lucas Tire & Trim Shine is a unique water based formula developed to quickly detail tires and exterior trim. Lucas Tire & Trim Shine is used by professional auto show vehicle detailers and racing professionals who demand the ultimate performance. Lucas Tire & Trim Shine is sling resistant and does not leave an oil residue like other tire shine products. It penetrates deeply into the tire, is long lasting, UV resistant and effectively prevents sidewall brownout. It is safe for use on rubber and plastic bumpers and trim. It is safe on all vinyl surfaces and will not harm paint. It is excellent for detailing any type of rim. It can be used in direct sunlight with equal results. It returns your tire and trim to showroom shine. For best results, shake bottle well prior to use. Spray generously on exterior surfaces, let sit and then wipe away with a soft terry cloth towel, chamois, micro fiber towel or sponge applicator. ATTENTION: Do not use any Slick Mist® products on floors, vehicle controls (pedals, grips, steering wheels), motorcycle seats or tire treads, bicycles seats or tire treads, brake drums and any other surfaces where slipperiness may be hazardous.



# METAL POLISH

PRODUCT # 10155, 10156, 20155

TEST	ASTM	TYPICAL
Appearance	Visual	Opaque
Specific Gravity @ 60°F	D-1298	0.98
Density @ 60°F LBS/US Gal	D-1298	8.16
Flash Point, PMCC °F	D-93	142
Color	Visual	White
pH		6.5
Odor		Mint

Lucas Metal Polish cleans, polishes and protects chrome, aluminum, copper, brass and other metals. Restores metals to showroom shine. Removes oxidation, tarnish and dirt. Product goes on easy and wipes off easy.



## GUN OIL

PRODUCT # 10006, 10010, 10560

TEST	ASTM	TYPICAL
API Gravity	D-1298	26.4
Specific Gravity @ 60°F	D-1298	.8961
Density @ 60°F LBS/US GAL	D-1298	7.462
Viscosity @ 100°C cSt	D-445	8.0
Flash Point, COC °F	D-92	425
Color		Light Red
Neutralization Number	D-664	.02
Ash - Wt %		Nil
Sulphur - Wt%		0.01
Solvents		None

Lucas Gun Oil is a special blend of oil and petroleum-extracted additives producing an all-weather, odorless lubricant. Its odorless formulation is a must for use on hunting firearms. The polymeric film protects metal from rust, wear and moisture during all hunting and shooting conditions. Applying Lucas Gun Oil to the bore and action makes clean-up of powder residue, copper fouling and wad fouling a much easier task. It resists burning off many times longer than conventional gun oils. Lucas Gun Oil cuts through rust and frees stuck parts and actions. It neutralizes acids from fingerprints to help prevent rusting. Lucas Gun Oil resists drying for long term storage use. Lucas Gun Oil is great for general lubrication on all your sporting firearms and compound bows.



## EXTREME DUTY GUN OIL

PRODUCT # 10870, 10875, 10876, 10877

TEST	ASTM	TYPICAL
API Gravity	D-1298	26.2
Specific Gravity @ 60°F	D-1298	.897
Density @ 60°F LBS/US GAL	D-1298	7.470
Viscosity @ 100°C cSt	D-445	15.0
Flash Point, COC °F	D-92	415
Pour Point, °C (°F)	D-97	-39 (-38)
Color		Flourescent Green
Solvents		None

Lucas Extreme Duty Gun Oil is designed for firearms that experience high volume, full auto and suppressed fire. It provides unmatched, burnoff-resistant protection unlike any other multi-purpose gun oil. Polymeric film protects metal parts from rust, wear and moisture during extreme conditions. It neutralizes acids caused by contact from human hands and resists drying during long periods of storage. Provides maximum heat resistance. For use on bolt carrier groups and all other moving parts. Provides protection from -38°F to 400°F.

# EXTREME DUTY GUN GREASE

PRODUCT # 10889



TEST	ASTM	TYPICAL
Thickener Type		Lithium Complex
Texture		Smooth, Tacky
Color		Deep Blue
Penetration 0 Strokes	D-217	280
60 Strokes	D-217	280
High Temperature Wheel Life	D-3527	80
Timken OK Load, lbs	D-2509	80
Rust Prevention	D-1743	Pass
Water Wash-Out, % Loss	D-1264	
Test % Loss @ 175°F		<8.0
Four Ball E.P. Test	D-2596	
Weld Point, Kg		620
Load Wear Index, Kgf		78
Four Ball Wear Test D, mm	D-2266	0.57
Oil Separation, Mass % Loss	D-1742	0
Leakage Tendency, g	D-4290	1.3
Oxidation Stability	D-942	10 Max
Dropping Point, °F	D-2265	540
Fretting Protection, mg	D-4170	4.2
Base Oil Viscosity cSt @ 40°C	D-445	224
cSt @ 100°C		15
Viscosity Index		50 Typ.
Low Temperature Torque, -40°C Nm	D-4693	15.5 Max
Odor		Grape

Lucas Extreme Duty Gun Grease is a premium, heavy duty firearm grease formulated with a unique additive system designed to provide maximum lubrication under the most severe operating conditions. This is a true firearms grease, it was developed to lubricate and protect under the harshest heat, friction and pressures of sustained firing while reducing friction and wear. Its unique formulation is designed to prevent rust and corrosion from rain and moisture in fresh and saltwater environments. Application to metal surfaces and bores will prevent corrosion during both use and long term storage. Lucas Oil Extreme Duty Gun Grease withstands extreme pressures and cushions metal surfaces with an 80 lb Timken load (35 lb is the minimum industry standard). Lucas Oil Extreme Duty Gun Grease is recommended for all firearms types. It provides excellent lubrication and protection on shotguns, pistols and revolvers as well as full auto carbines, rifles and belt fed machine guns.



# EXTREME DUTY GUN CLEANER

PRODUCT # 10905

Lucas Oil Extreme Duty Gun Cleaner's high pressure spray contains a unique blend of solvents and cleaning agents designed to blast away powder residue, grease, oil and other debris from firearm actions, slides, barrels and parts. This product is safe on your firearm's metal finishes and will not harm polymers subjected to incidental contact. Its unique formula effectively displaces water, which is great if you are caught outside in a rain or snow storm. It leaves zero residue, and is quick drying. It is ideal for final degreasing of firearms prior to bluing, Parkerizing or spray finish applications. Lucas Oil Extreme Duty Gun Cleaner is non-chlorinated, CFC free and VOC compliant. Please see instructions for use on the back of the product label.

**WARNING:** This product can expose you to chemicals including toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

# EXTREME DUTY CLP (AEROSOL & LIQUID)

PRODUCT # 10915, 10916



TEST	ASTM	TYPICAL
API Gravity	D-1298	39.5
Specific Gravity @ 60°F	D-1298	0.828
Density @ 60°F LBS/GAL	D-1298	6.9
Viscosity @ 100°C cSt	D-445	1.5
Color	Visual	Green
Flash Point, PMCC °F	D-93	221

Extreme Duty CLP Aerosol is designed to clean, lubricate and protect firearms. It is great for use in general shop and home applications. Its powerful spray penetrates and cleans all types of firearms.

**Cleans:** It dissolves powder, residue and contaminants and effectively cuts rust on neglected firearms.

**Lubricates:** It contains effective anti-wear additives to reduce friction and wear, which extends the life of the firearm and its runtime. Its unique Lucas Oil additive system provides lubrication to all of the moving parts on firearms and minimizes repairs and failures.

**Protects:** Fast drying formula is designed to protect against rust and corrosion during long storage periods and minimizes fingerprints. It effectively repels water.

When applying the product always make sure that firearms are unloaded. Apply the product and remove contaminants with swab, patch or fabric. Contains NO Chlorine and Fluorocarbons. Also comes in a 4 fluid ounce bottle for ease of use with mess free applicator.

# EXTREME DUTY BORE SOLVENT AND ULTRASONIC GUN CLEANER

PRODUCT # 10907, 10909, 10918



TEST	ASTM	TYPICAL
API Gravity	D-1298	37.3
Specific Gravity @ 60°F	D-1298	0.838
Density @ 60°F, Lbs./US Gal	D-1298	6.987
Flash Point, PMCC, °F	D-93	210 min
Viscosity @ 40°C cSt	D-445	3 cSt
Color	Visual	Aqua Green, clear

Lucas Extreme Duty Bore Solvent and Ultrasonic Gun Cleaner is a premium, high-quality cleaning fluid designed to safely and effectively remove carbon and metal residue, including: lead, copper and nickel alloys, from the bores of firearms. It is slow to evaporate and leaves a thin film of corrosion inhibitor. It is not drying and is mild toward the multiple materials common on modern firearms. It will not attack polymeric or factory finishes. It is effective when used with patches and in the case of neglected firearms, bore brushes. Lucas Bore solvent is the ideal fluid for use with Ultrasonic Gun Cleaners (grips and stocks removed). It is pleasantly scented. An excellent companion product to Lucas CLP, Gun Oil and Extreme Duty Gun Oil.

# ***GUN METAL POLISH & TUMBLER MEDIA ADDITIVE***

**PRODUCT # 10878, 10880**



<b>TEST</b>	<b>ASTM</b>	<b>TYPICAL</b>
<b>Appearance</b>	<b>Visual</b>	<b>Opaque</b>
<b>Specific Gravity @ 60°F</b>	<b>D-1298</b>	<b>0.98</b>
<b>Density @ 60°F LBS/US GAL</b>	<b>D-1298</b>	<b>8.16</b>
<b>Flash Point, PMCC °F</b>	<b>D-93</b>	<b>142</b>
<b>Color</b>	<b>Visual</b>	<b>White</b>
<b>pH</b>	<b>—</b>	<b>6.5</b>
<b>Odor</b>	<b>—</b>	<b>Mint</b>

Lucas Gun Metal Polish & Tumbler Media Additive is easy to use, long lasting, safe on most metals, and contains no acid or ammonia. Cleans and polishes factory blue, nickel, stainless and brass finishes. Effectively removes surface rust from finishes and bores. Not designed for use on cold bluing. Keep away from heat and flames. Always shake well before and during use. Great for all types of firearms.

## SYNTHETIC SAE 5W-20 RACING OIL

PRODUCT # 10883, 10884, 10944, 10948



TEST	ASTM	TYPICAL
API Gravity	D-1298	34.7
Specific Gravity @ 60°F	D-1298	0.851
Density @ 60°F, Lbs./US Gal	D-1298	7.09
Flash Point, PMCC,°F	D-93	420
Viscosity @ 40°C, cSt	D-445	45.6
Viscosity @ 100°C, cSt	D-445	8.3
Viscosity Index	D-2270	160
Cold Cranking Simulator @ -30°C, cP	D-5293	6,600 Max.
Mini Rotary Viscometer @ -35°C, cP	D-4684	60,000 Max.
Color	Visual	Amber

Lucas Synthetic SAE 5W-20 Racing Oil, like many of the other oils in Lucas Oil Products Racing Only line, is fortified with unique additives and additive packages developed jointly between Lucas Oil Products Research & Development and a major additive supplier to the petroleum industry, exclusively for use in Lucas Oil Racing Only line. This premium racing oil contains high levels of zinc, molybdenum and phosphorus, which provides a tougher, more durable tribological film at critical engine points than standard engine oils, to provide maximum protection even under the most severe conditions. The base oil is entirely synthetic utilizing synthetic esters and low-viscosity polyalphaolefins (PAO). Lower oil temperatures, extended oil life and minimum wear are the result. This low-viscosity multi-grade oil provides good film strength despite its power-saving viscosity and stands up to high operating temperatures. Lucas Synthetic SAE 5W-20 is the perfect oil for blue printed engines with tight tolerances. This premium racing oil is appropriate with all racing fuels. It is fully compatible with synthetic and non-synthetic oils. Lucas Synthetic SAE 5W-20 racing oil is typically used in Circle Track, NASCAR, Drag Racing and Road Course Racing. Lucas Synthetic SAE 5W-20 is for RACING APPLICATIONS ONLY. It is not recommended for passenger car use.

## SYNTHETIC SAE 5W-30 RACING OIL

PRODUCT # 10885, 10886, 10945, 10949



TEST	ASTM	TYPICAL
API Gravity	D-1298	33.3
Specific Gravity @ 60°F	D-1298	0.858
Density @ 60°F, Lbs./US Gal	D-1298	7.16
Flash Point, PMCC,°F	D-93	420
Viscosity @ 40°C, cSt	D-445	67.7
Viscosity @ 100°C, cSt	D-445	13.2
Viscosity Index	D-2270	161
Cold Cranking Simulator @ -30°C, cP	D-5293	6,600 Max.
Mini Rotary Viscometer @ -35°C, cP	D-4684	60,000 Max.
Color	Visual	Amber

Lucas Synthetic SAE 5W-30 Racing Oil is fortified with unique additives and additive packages developed jointly between Lucas Oil Products Research & Development and a major additive supplier to the petroleum industry, exclusively for use in Lucas Oil Racing Only line. This premium racing oil contains high levels of zinc, molybdenum and phosphorus, which provides a tougher, more durable tribological film at critical engine points than standard engine oils, to provide maximum protection even under the most severe conditions. The base oil is entirely synthetic utilizing synthetic esters, low-viscosity polyalphaolefins (PAO) and high molecular weight metallocene polyalphaolefin (mPAO), the cutting-edge technology in synthetic base stocks. Lower oil temperatures, extended oil life and minimum wear are the result. This low-viscosity multi-grade oil provides good film strength despite its power-saving viscosity and stands up to high operating temperatures. Lucas Synthetic SAE 5W-30 is the perfect choice for the driver who wants a lower viscosity oil, but wants more protection than as SAE 20 oil. This premium racing oil is appropriate with all racing fuels. It is fully compatible with synthetic and non-synthetic oils. Lucas Synthetic SAE 5W-30 racing oil is typically used in Circle Track, NASCAR, Drag Racing, Road Course Racing and Drifting. This product is for RACING APPLICATIONS ONLY. It is not recommended for passenger car use.

# SYNTHETIC SAE 10W-40 RACING OIL

PRODUCT # 10942, 10911, 10912, 10950



TEST	ASTM	TYPICAL
API Gravity	D-1298	28.2
Specific Gravity @ 60°F	D-1298	0.886
Density @ 60°F, Lbs./US Gal	D-1298	7.38
Flash Point, PMCC, °F	D-93	420
Viscosity @ 40°C, cSt	D-445	92.1
Viscosity @ 100°C, cSt	D-445	15.3
Viscosity Index	D-2270	176
Cold Cranking Simulator @ -25°C, cP	D-5293	7,000 Max.
Mini Rotary Viscometer @ -30°C, cP	D-4684	60,000 Max.
Color	Visual	Amber

Lucas Synthetic SAE 10W-40 Racing Oil is fortified with unique additives and additive packages developed jointly between Lucas Oil Products Research & Development and a major additive supplier to the petroleum industry. This premium racing oil contains high levels of zinc, molybdenum and phosphorus, which provides a tougher, thicker tribological film at critical engine points to provide maximum protection even under the most severe conditions. The base oil is entirely synthetic being a judicious blend of synthetic esters, low-viscosity polyalphaolefins (PAO) and high molecular weight metallocene polyalphaolefin (mPAO), the cutting-edge technology in synthetic base stocks. Lower oil temperatures, extended oil life and minimum wear are the result. This mid-viscosity multi-grade oil provides good film strength between the cylinder wall and piston rings and controls oil burning with improved oil pressure even in worn engines, standing up to high operating temperatures. It provides an excellent balance between cold temperature fluidity and good viscosity at high temperature. This premium racing oil is appropriate with all racing fuels. It is fully compatible with synthetic and non-synthetic oils. Lucas Synthetic SAE 10W-40 racing oil is typically used in Sprint Cars, Modified, Late Model Dirt & Asphalt, NHRA, IHRA, Sportsman Drag Racing, Super Comp, Off Road Pro 2 & 4, Trophy Trucks, Air Cooled Volkswagen Buggies, Hot Rods and Drifting. This product is for RACING APPLICATIONS ONLY. It is not recommended for passenger car use.

# SYNTHETIC SAE 20W-50 RACING OIL

PRODUCT # 10615, 10616, 10617, 10618, 10619



TEST	ASTM	TYPICAL
API Gravity	D-1298	30.45
Specific Gravity @ 60°F	D-1298	0.874
Density @ 60°F LBS/US Gal	D-1298	7.28
Viscosity @ 40°C, cSt	D-445	155.1
Viscosity @ 100°C, cSt	D-445	20.0
Flash Point COC °F	D-92	430
Color		Amber
Viscosity Index	D-2270	149
CCS @ -15°C, CPS	D-5293	9,500 Max
MRV @ -20°C, CPS	D-4684	60,000 Max

Lucas Synthetic SAE 20W-50 Racing Oil is made with the highest quality synthetic base oils and is fortified with a unique additive package containing high levels of zinc, molybdenum and phosphorus, which provides a tougher, thicker additive film for maximum protection even under the most severe conditions. It lowers oil temperatures, extends oil life and minimizes metal fatigue. It improves the film strength between the cylinder wall and piston rings and slows oil burning and improves pressure in worn engines. It has excellent cold temperature properties and stands up to high operating temperatures. Lucas Synthetic SAE 20W-50 is compatible with methanol and all racing fuels. It is compatible with synthetic and non-synthetic oils. Lucas Synthetic SAE 20W-50 Racing Oil is typically used in Sprint Cars, Modifieds, Late Model Dirt & Asphalt, NHRA, IHRA, Sportsman Drag Racing, Alcohol Funny Cars, Super Comp, Off Road Pro 2 & 4, Trophy Trucks, Air Cooled Volkswagen Buggies and Hot Rods. Lucas Synthetic SAE 20W-50 is for RACING APPLICATIONS ONLY. It is not recommended for passenger car use.

# SEMI-SYNTHETIC SAE 20W-50 RACING OIL

PRODUCT # 10306, 10378, 10604, 10310



TEST	ASTM	TYPICAL
API Gravity	D-1298	29.56
Specific Gravity @ 60°F	D-1298	0.879
Density @ 60°F LBS/US Gal	D-1298	7.32
Flash Point, PMCC,°F	D-93	420
Viscosity @ 40°C, cSt	D-445	155
Viscosity @ 100°C, cSt	D-445	19.9
Viscosity Index	D-2270	148
Cold Cranking Simulator @ -15°C, cP	D-5293	9,500 Max.
Mini Rotary Viscometer @ -20°C, cP	D-4684	60,000 Max.
Color	Visual	Amber

Lucas Semi-Synthetic SAE 20W-50 Racing Oil is fortified with unique additives and additive packages developed jointly between Lucas Oil Products Research & Development and a major additive supplier to the petroleum industry exclusively for use in Lucas Oil Racing Only line. This premium racing oil contains high levels of zinc, molybdenum and phosphorus, which provides a tougher, thicker tribological film at critical engine points to provide maximum protection even under the most severe conditions. The base oil is a judicious blend of high quality API Group II paraffinic base stocks, synthetic esters, low-viscosity polyalphaolefins (PAO) and high molecular weight metallocene polyalphaolefin (mPAO), the cutting-edge technology in synthetic base stocks. Lower oil temperatures, extended oil life and minimum wear are the result. This relatively viscous multi-grade oil shows improved film strength between the cylinder wall and piston rings and slows oil burning with improved oil pressure even in worn engines, standing up to high operating temperatures. Despite its robust viscosity at operating temperature, Lucas Synthetic 20W-50 has good cold temperature fluidity. This premium racing oil is appropriate with all racing fuels. It is fully compatible with synthetic and non-synthetic oils. Lucas Semi-Synthetic SAE 20W-50 racing oil is typically used in Sprint Cars, Modified, Late Model Dirt & Asphalt, NHRA, IHRA, Sportsman Drag Racing, Super Comp, Off Road Pro 2 & 4, Trophy Trucks, Air Cooled Volkswagen Buggies, Hot Rods and Drifting. Lucas Semi-Synthetic SAE 20W-50 is for RACING APPLICATIONS ONLY. It is not recommended for passenger car use.

# SEMI-SYNTHETIC SAE 10W-40 RACING OIL

PRODUCT # 10943, 10913, 10914, 10951



TEST	ASTM	TYPICAL
API Gravity	D-1298	27.8
Specific Gravity @ 60°F	D-1298	0.888
Density @ 60°F LBS/US Gal	D-1298	7.40
Flash Point, PMCC,°F	D-93	420
Viscosity @ 40°C, cSt	D-445	84.4
Viscosity @ 100°C, cSt	D-445	13.9
Viscosity Index	D-2270	169
Cold Cranking Simulator @ -25°C, cP	D-5293	7,000 Max.
Mini Rotary Viscometer @ -30°C, cP	D-4684	60,000 Max.
Color	Visual	Amber

Lucas Semi-Synthetic SAE 10W-40 Racing Oil is fortified with unique additives and additive packages developed jointly between Lucas Oil Products Research & Development and a major additive supplier to the petroleum industry exclusively for use in Lucas Oil Racing Only line. This premium racing oil contains high levels of zinc, molybdenum and phosphorus, which provides a tougher, thicker tribological film at critical engine points to provide maximum protection even under the most severe conditions. The base oils used to formulate this fine oil are premium API Group II paraffinic base stock and synthetic base oils as well as synthetic esters. Lower oil temperatures, extended oil life and minimum wear are the result. This mid-viscosity multi-grade oil provides good film strength between the cylinder wall and piston rings and controls oil burning with improved oil pressure even in worn engines, standing up to high operating temperatures. Lucas Semi-Synthetic SAE 10W-40 provides an excellent balance between cold temperature fluidity and good viscosity at high temperature. This premium racing oil is appropriate with all racing fuels. It is fully compatible with synthetic and non-synthetic oils. Lucas Semi-Synthetic SAE 10W-40 racing oil is typically used in Sprint Cars, Modified, Late Model Dirt & Asphalt, NHRA, IHRA, Sportsman Drag Racing, Super Comp, Off Road Pro 2 & 4, Trophy Trucks, Air Cooled Volkswagen Buggies, Hot Rods and Drifting. Lucas Semi-Synthetic SAE 10W-40 is for RACING APPLICATIONS ONLY. It is not recommended for passenger car use.

# SAE 20W-50 RACING OIL

PRODUCT # 10620, 10621, 10623, 10624



TEST	ASTM	TYPICAL
API Gravity	D-1298	26.4
Specific Gravity @ 60°F	D-1298	0.896
Density @ 60°F LBS/US Gal	D-1298	7.46
Viscosity @ 40°C, cSt	D-445	166.1
Viscosity @ 100°C, cSt	D-445	19.5
Flash Point COC °F	D-92	425
Color		Amber
Viscosity Index	D-2270	135
CCS @ -15°C, CPS	D-5293	9,500 Max
MRV @ -20°C, CPS	D-4684	60,000 Max

Lucas SAE 20W-50 Racing Oil is manufactured with the highest quality paraffinic base oils and is fortified with a unique additive package containing high levels of zinc, molybdenum and phosphorus, which provides a tougher, thicker additive film for maximum protection even under the most severe conditions. It lowers oil temperatures, extends oil life and minimizes metal fatigue. It improves the film strength between the cylinder wall and piston rings and slows oil burning and improves pressure in worn engines. It has good cold temperature properties and stands up to high operating temperatures. Lucas SAE 20W-50 is compatible with methanol and all racing fuels. It is compatible with synthetic and non-synthetic oils. Lucas SAE 20W-50 Racing Oil is typically used in Sprint Cars, Modifieds, Late Model Dirt & Asphalt, NHRA, IHRA, Sportsman Drag Racing, Alcohol Funny Cars, Super Comp, Off Road Pro 2 & 4, Trophy Trucks, Air Cooled Volkswagen Buggies and Hot Rods. Lucas SAE 20W-50 is for RACING APPLICATIONS ONLY. It is not recommended for passenger car use.

# SAE 50 PLUS RACING OIL WITH ORGANIC MOLY

PRODUCT # 10044, 10095, 10107, 10346, 10347, 10933



TEST	ASTM	TYPICAL
API Gravity	D-1298	25.2
Specific Gravity	D-1298	.9030
Density @ 60°F LBS/US Gal	D-1298	7.519
Viscosity 100°C cSt	D-445	20.0
Viscosity Index	D-2270	100
Color		Clear Blue
Flash Point, COC °F	D-92	470
Zinc (Wt.%)		.35

Lucas SAE 50 Plus contains organic moly and is super slick to reduce friction and increase efficiency for maximum RPMs. It is fortified with special anti-foam agents to guard against oil cavitation at high RPMs. Especially designed to resist breakdown from contamination by racing fuels, even alcohol formulations. Our new blue color differentiates our product from competitive products. Lucas SAE 50 Plus is formulated to resist oxidation and "thinning out" at high crank-case temperatures. It contains a high level of detergents and dispersants to resist sludge and varnish formation. It provides protection against rust and corrosion during shut downs and neutralizes combustion acids. Lucas SAE 50 Plus has special anti-wear additives for film formation to protect against scuffing and wear. We have significantly increased the zinc content to provide excellent wear protection even under the most adverse racing conditions. Lucas SAE 50 Plus is a true high performance lubricant specially formulated to lower operating temperatures and provide maximum protection for engines operating under heavy duty or high performance conditions. It has been tested and proven to extend bearing life in high RPM/high horsepower drag race engines. It easily stands up to the high temperatures and longevity demands of stock car engines. When used in ordinary automotive applications, the user can expect up to three times longer oil life, higher oil pressure, lower oil temperatures, longer engine life and lower overall maintenance cost. The protective film of Lucas SAE 50 Plus assures a "wet" start every time, even after long periods of non-use. It is excellent for use in worn engines. The protective additive film fills the gaps between worn parts to stop noise, oil consumption, smoking, leaking and further wear. It blends with any other motor oil, petroleum or synthetic. Lucas SAE 50 Plus is perfect for high performance differentials, transfer cases and manual transmissions. NOT RECOMMENDED FOR PASSENGER CARS REQUIRING API SERVICE OIL.

# SAE 60 PLUS RACING OIL WITH ORGANIC MOLY

PRODUCT # 10696, 10697



TEST	ASTM	TYPICAL
API Gravity	D-1298	25.0
Specific Gravity	D-1298	0.904
Density @ 60°F LBS/US Gal	D-1298	7.53
Viscosity 100°C cSt	D-445	24.0
Viscosity Index	D-2270	100
Color		Red
Flash Point, COC °F	D-92	450
Zinc (Wt.%)	X-ray	0.38
TBN mg KOH/g	D-2896	11.0

Lucas SAE 60 Plus contains organic moly and is super slick to reduce friction and increase efficiency for maximum RPMs. It is fortified with special anti-foam agents to guard against oil cavitation at high RPMs. Especially designed to resist breakdown from contamination by racing fuels, even alcohol formulations. Our new red color differentiates our product from competitive products. Lucas SAE 60 Plus is formulated to resist oxidation and "thinning out" at high crank-case temperatures. It contains a high level of detergents and dispersants to resist sludge and varnish formation. It provides protection against rust and corrosion during shut downs and neutralizes combustion acids. Lucas SAE 60 Plus has special anti-wear additives for film formation to protect against scuffing and wear. Its zinc content provides excellent wear protection even under the most adverse racing conditions. Lucas SAE 60 Plus is a true high performance lubricant specially formulated to lower operating temperatures and provide maximum protection for engines operating under heavy duty or high performance conditions. It has been tested and proven to extend bearing life in high RPM/high horsepower drag race engines. It easily stands up to the high temperatures and longevity demands of stock car engines. When used in ordinary automotive applications, the user can expect up to three times longer oil life, higher oil pressure, lower oil temperatures, longer engine life and lower overall maintenance cost. The protective film of Lucas SAE 60 Plus assures a "wet" start every time, even after long periods of non-use. It is excellent for use in worn engines. The protective additive film fills the gaps between worn parts to stop noise, oil consumption, smoking, leaking and further wear. It blends with any other motor oil, petroleum or synthetic. Lucas SAE 60 Plus is perfect for high performance differentials, transfer cases and manual transmissions. NOT RECOMMENDED FOR PASSENGER CARS REQUIRING API SERVICE OIL.

# 70 PLUS RACING OIL

PRODUCT # 10266, 10268, 10269, 10348



TEST	ASTM	TYPICAL
API Gravity	D-1298	25.4
Specific Gravity	D-1298	.9018
Density @ 60°F LBS/US Gal	D-1298	7.509
Viscosity @ 100°C cSt	D-445	30.0
Viscosity Index		120
Color		Blue/Clear
Flash Point, COC °F	D-92	495
Zinc (Wt. %)		.28

Lucas 70 Plus is a true high performance lubricant specially formulated to lower operating temperatures and provide maximum protection for engines operating under heavy duty or high performance conditions. It has been tested and proven to extend bearing life in high RPM/high horsepower drag race engines. Lucas 70 Plus is super slick to reduce friction and increase efficiency for maximum RPMs. It is fortified with special anti-foam agents to guard against oil cavitation at high RPMs. It is especially designed to resist break-down from alcohol and nitromethane fuel contamination. Lucas 70 Plus is formulated to resist oxidation and "thinning out" at high temperatures. It contains a high level of detergents and dispersants to resist sludge and varnish formation. Provides protection against rust and corrosion during shut downs and neutralizes combustion acids. Lucas 70 Plus has special anti-wear additives for film forming to protect against scuffing and wear. Lucas 70 Plus contains nothing that would be harmful to an engine or void warranties. It blends with any other motor oil, petroleum or synthetic. It is perfect for high performance differentials, transfer cases and manual transmissions.



**NEW!**

# SAE 5W-20 ENGINE BREAK-IN OIL

PRODUCT # 11033, 11034

TEST	ASTM	TYPICAL
API Gravity	D-1298	32.2
Specific Gravity @ 60°F	D-1298	0.864
Density @ 60°F LBS/US Gal	D-1298	7.205
Viscosity @ 40°C	D-445	47.9
Viscosity @ 100°C	D-445	8
Viscosity Index	D-2270	149
Color		Clear Brown
Flash Point, COC °F	D-92	440

Lucas SAE 5W-20 Engine Break-In Oil is based on a high-quality API SN motor oil formula blended with premium petroleum base oil stocks. Additional anti-wear additives have been added to improve performance, especially for new or rebuilt engines or engines with flat tappets which experience greater sliding friction. This is an excellent motor oil for promoting ring setting in new or rebuilt engines and reducing wear. The formulation approach is balanced, the additional ZDDP (zinc dialkyldithiophosphates) is not extreme, but sufficient to provide that extra protection (approximately 1,500 ppm zinc). This makes Lucas SAE 5W-20 Engine Break-In Oil the ideal choice for the classic car owner, the vintage muscle car owner, the weekend racer or automotive enthusiast. It should be noted that due to this product's additional ZDDP, it exceeds current API limits for phosphorus in passenger car motor oils and is therefore not an API licensed oil.

## RACING ENGINE BREAK-IN OILS

SAE 30 PRODUCT # 10630, 10631, 10632, 10633, 10634

SAE 20W-50 PRODUCT # 10635, 10636, 10637, 10638, 10639



TEST	ASTM	SAE 30	SAE 20W-50
API Gravity	D-1298	28.0	28.3
Specific Gravity @ 60°F	D-1298	0.887	0.885
Density @ 60°F, lbs/Gal	D-1298	7.39	7.37
Viscosity @ 40°C, cSt	D-445	97.5	155.5
Viscosity @ 100°C, cSt	D-445	11.0	19.1
Viscosity Index	D-2270	103	134
Flash Point, COC, °F	D-92	400	450
Zinc, PPM	X-Ray	3,600	3,600
CCS @ -15°C, CPS	D-5293	-	4,200
MRV TP1 @ -20°C	D-4684	-	60,000 Max

Lucas Racing Break-In Oils help seal new rings while providing excellent extreme pressure properties that protect the entire valve train and of course, the camshaft. Especially designed for flat tappet camshafts but can be used wherever you need the extra wear protection in the form of zinc. Formulated in two grades to cover most motors and applications. Zinc levels typically at 3600 PPM, which is much higher than commercial passenger car oils. Recommended for use in racing applications only. Not recommended for passenger cars requiring API service oil.

# JUNIOR DRAGSTER SAE 5W-20 RACING OIL

PRODUCT # 10380, 10471



TEST	ASTM	TYPICAL
API Gravity	D-1298	29.1
Specific Gravity @ 60°F	D-1298	0.881
Density @ 60°F LBS/US Gal	D-1298	7.35
Viscosity @ 40°C, cSt	D-445	51.8
Viscosity @ 100°C, cSt	D-445	8.3
Viscosity Index	D-2270	134
Color		Blue
Flash Point, COC °F	D-92	430

Lucas Synthetic SAE 5W-20 Junior Dragster Oil is a 100% Synthetic, ULTRA-light viscosity, RACING MOTOR OIL. Developed for high RPM naturally aspirated gasoline engines, it is excellent for gapless or extra light tension rings. Has great methanol tolerance. Provides maximum horsepower gains in Junior Dragster and Quarter Midgets, while providing excellent protection and reducing friction at high RPM's. Our exclusive Anti-Wear and Anti-Scuff Extreme Pressure additive package protects the valve train, bearings and cylinder walls. Designed to run at operating temperatures up to 190°F, although it will provide protection up to 250°F. Heavily fortified with zinc to provide maximum protection. Not intended for passenger car use.

# KENNE BELL SYNTHETIC SUPERCHARGER OIL

PRODUCT # 10650



TEST	ASTM	TYPICAL
API Gravity	D-1298	31.9
Specific Gravity	D-1298	0.866
Density @ 60°F LBS/Gal	D-1298	7.212
Viscosity 100°C cSt	D-445	19.1
Color	Visual	Blue
Zinc (Wt.%)	X-ray	0.29

Kenne Bell Synthetic Supercharger Oil packaged by Lucas Oil is a specially formulated oil additive package with antiwear extreme pressure and RPM lubricants that are engineered to optimize twin screw performance and life. Distinctive blue color helps when filling the system and looking for leaks.

# 4-STROKE MEDIUM KARTING OIL

PRODUCT # 10848



TEST	ASTM	TYPICAL
API Gravity	D-1298	34
Specific Gravity @ 60°F	D-1298	0.855
Density @ 60°F LBS/US Gal	D-1298	7.12
Viscosity @ 40°C, cSt	D-445	65.4
Viscosity @ 100°C, cSt	D-445	10
Viscosity Index	D-2270	139
Color	Visual	Blue
Flash Point, COC °F	D-92	450
Calcium, ppm	X-Ray	1,261
Phosphorous, ppm	X-Ray	3,381
Zinc, ppm	X-Ray	3,873

Lucas 4-Stroke Medium Karting Oil is designed for use in high performance, high rpm engines operating under high temperature race conditions. The medium viscosity provides improved horsepower and reduced friction. Our product is 100% synthetic which provides excellent high temperature protection and helps extend the life of the oil. Our product contains anti-wear and extreme pressure agents along with our unique Lucas additive chemistry which effectively protects the valve train, bearings, piston rings and cylinder walls from wear. It contains effective rust and corrosion inhibitors to protect engines during use and short and long term storage. Lucas 4-Stroke Medium Karting Oil contains unique ester chemistry to provide supplemental friction reducing properties. Our product is compatible with both conventional and synthetic karting oils and will provide protection up to 300°F operating temperature. Our viscosity at 100°C equates to SAE 30 oil.

# SPROCKET & CHAIN LUBE

PRODUCT # 10525



TEST	ASTM	TYPICAL
API Gravity @ 60°F	D-1298	24.6
Specific Gravity @ 60°F	D-1298	.9065
Density @ 60°F LBS/US Gal	D-1298	7.549
Viscosity @ 100°C cSt	D-445	65.0
Flash Point, COC °F	D-92	417
Color		Dark Brown

Contains: Organic Molybdenum

Lucas Sprocket & Chain Lube is a complex blend of special additives and select base oils formulated to be a long-lasting, all-weather, all-temperature lubricant and protectant for chains, sprockets, cables and open gears. It has excellent high temperature stability. Since it is stable and water resistant, it should be applied to any nuts, bolts or components that are subjected to long-term atmospheric exposure (rust). Lucas Sprocket & Chain Lube should be applied to any sliding surface where an exceptional lubricant is needed. Lucas Sprocket & Chain Lube has special agents to resist slinging off fast moving chains and gears. It resists water, even salt water. It breaks up rust and penetrates. It has excellent resistance to dirt. Specially designed for use in Go-Karts and other chain drives. Less friction at higher RPM's means less drag and longer component life.

# S1 RACING SUSPENSION FLUID

PRODUCT # 10488, 10548, 10549, 10550, 10551



TEST	ASTM	TYPICAL
API Gravity	D-1298	43.08
Specific Gravity @ 60°F	D-1298	0.811
Density @ 60°F LBS/US Gal	D-1298	6.76
Viscosity @ 40°C cSt	D-445	11.0
Viscosity @ 100°C cSt	D-445	3.5
Viscosity Index		230
Flash Point, COC °F	D-92	302
Color		Water White

Lucas Oil S1 Racing Suspension Fluid is blended with an exclusive additive package containing effective anti-wear agents and extreme friction reducers that are unique to the industry. Lucas Oil S1 Racing Suspension Fluid is a low viscosity, low drag formula designed for racing applications only. Ensures smooth damping even in the toughest track. Dyno tested for proven friction reduction, thermal stability, and track tested with proven performance in IRL and NASCAR. High viscosity index maintains viscosity characteristics in all temperature conditions providing excellent riding performance. Excellent performance in nitrogen filled systems.

# S2 RACING SUSPENSION FLUID

PRODUCT # 10489, 10552, 10553, 10554, 10555, 10834



TEST	ASTM	TYPICAL
API Gravity	D-1298	42.06
Specific Gravity @ 60°F	D-1298	0.815
Density @ 60°F LBS/US Gal	D-1298	6.79
Viscosity @ 40°C cSt	D-445	18.6
Viscosity @ 100°C cSt	D-445	6.1
Index		321
Flash Point, COC °F	D-92	310
Color		Water White

Lucas Oil S2 Racing Suspension Fluid is blended with an exclusive additive package containing effective anti-wear agents and extreme friction reducers that are unique to the industry. Lucas Oil S2 Racing Suspension Fluid is a low viscosity, low drag formula designed for racing applications only. Ensures smooth damping even in the toughest track. Dyno tested for proven friction reduction, thermal stability, and track tested with proven performance in IRL and NASCAR. High viscosity index maintains viscosity characteristics in all temperature conditions providing excellent riding performance. Excellent performance in nitrogen filled systems.

# L9 RACING GEAR OIL

PRODUCT # 10456, 10457, 10458, 10459, 10480



TEST	ASTM	TYPICAL
API Gravity	D-1298	34.9
Specific Gravity @ 60°F	D-1298	0.850
Density @ 60°F LBS/US Gal	D-1298	7.08
Viscosity @ 40°C cSt	D-445	38.6
Viscosity @ 100°C cSt	D-445	7.5
Viscosity Index		166
Flash Point, COC °F	D-92	340
Color		Clear Light Amber

Lucas Oil L9 High Performance Synthetic Racing Gear Oil is blended with an exclusive additive package containing effective anti-wear agents and extreme friction reducers that are unique to the industry. Provides excellent thermal stability and longevity and is recommended for use in both transmissions and differentials. Lucas Oil L9 High Performance Synthetic Racing Gear Oil is a low viscosity, low drag formula designed for racing applications only. Dyno tested for proven friction reduction and track tested with proven performance in IRL, NASCAR and NHRA.

# L10 RACING GEAR OIL

PRODUCT # 10460, 10461, 10462, 10463, 10481

TEST	ASTM	TYPICAL
API Gravity	D-1298	37.3
Specific Gravity @ 60°F	D-1298	0.838
Density @ 60°F LBS/US Gal	D-1298	6.99
Viscosity @ 40°C cSt	D-445	15.7
Viscosity @ 100°C cSt	D-445	3.7
Viscosity Index		145
Flash Point, COC °F	D-92	324
Color		Light Amber

Lucas Oil L10 High Performance Synthetic Racing Gear Oil is blended with an exclusive additive package containing effective anti-wear agents and extreme friction reducers that are unique to the industry. Provides excellent thermal stability and longevity and is recommended for use in both transmissions and differentials. Lucas Oil L10 High Performance Racing Gear Oil is an ultra low viscosity, ultra low drag formula designed for qualifying applications only. Dyno tested for proven friction reduction and track tested with proven performance in IRL, NASCAR and NHRA.

# L11 RACING GEAR OIL

PRODUCT # 10538, 10539, 10540, 10541, 10547

TEST	ASTM	TYPICAL
API Gravity	D-1298	38.4
Specific Gravity @ 60°F	D-1298	0.833
Density @ 60°F LBS/US Gal	D-1298	6.94
Viscosity @ 40°C cSt	D-445	12.7
Viscosity @ 100°C cSt	D-445	3.2
Viscosity Index		118
Flash Point, COC °F	D-92	330
Color		Light Amber

Lucas Oil L11 High Performance Synthetic Racing Gear Oil is blended with an exclusive additive package containing effective anti-wear agents and extreme friction reducers that are unique to the industry. Provides excellent thermal stability and longevity and is recommended for use in both transmissions and differentials. Lucas Oil L11 High Performance Racing Gear Oil is an ultra low viscosity, ultra low drag formula designed for qualifying applications only. Dyno tested for proven friction reduction and track tested with proven performance in IRL, NASCAR and NHRA.

# SYNTHETIC SAE 140 RACING GEAR OIL

PRODUCT # 10430, 10431, 10432, 10433



TEST	ASTM	TYPICAL
API Gravity	D-1298	24.99
Specific Gravity @ 60°F	D-1298	0.904
Density @ 60°F LBS/US Gal	D-1298	7.538
Flash Point, COC °F	D-92	540
Color		Amber
Viscosity @ 100°C, cSt	D-445	28
Zinc, ppm	X-ray	2300

Lucas Synthetic SAE 140 Racing Gear Oil is a high viscosity, high zinc, sulfur/phosphorus formula designed to be used in most extreme operating conditions. It has been tested extensively in short course racing and has been shown to hold up and provide the highest performance in trophy trucks and buggies. It is designed to withstand shock loading, extreme load, and to provide wear protection even in the most dusty and sandy environments. Lucas Synthetic SAE 140 Racing Gear Oil provides excellent film strength between the gear teeth and pinions and is able to withstand excessive temperature and provide oxidation inhibition to extend the life of the fluid. Our racing gear oil has been used in champion trophy trucks to provide the edge these drivers need to out perform the competition.

# SYNTHETIC SAE 250 RACING GEAR OIL

PRODUCT # 10645, 10646, 10647, 10648, 10649



TEST	ASTM	TYPICAL
API Gravity	D-1298	25.7
Specific Gravity @ 60°F	D-1298	0.900
Density @ 60°F LBS/US Gal	D-1298	7.495
Flash Point, COC °F	D-92	540
Color		Amber
Viscosity @ 100°C, cSt	D-445	43
Zinc, ppm	X-ray	3200

Lucas Synthetic SAE 250 Racing Gear Oil is a high viscosity, high zinc, sulfur/phosphorus formula designed to be used in most extreme operating conditions. It has been tested extensively in endurance type races such as the Baja 500 and Baja 1000 and has been shown to hold up and provide the highest performance in sand rails, trophy trucks and buggies. It is designed to withstand shock loading, extreme load, and to provide wear protection even in the most dusty and sandy environments. Lucas Synthetic SAE 250 Racing Gear Oil provides excellent film strength between the gear teeth and pinions and is able to withstand excessive temperature and provide oxidation inhibition to extend the life of the fluid.



# RACING FORMULA 2-CYCLE OIL

PRODUCT # 10828, 10829



TEST	ASTM	TYPICAL
API Gravity	D-1298	28.7
Specific Gravity @ 60°F	D-1298	0.883
Density @ 60°F, Lbs/US Gal	D-1298	7.36
Flash Point, PMCC °F	D-93	256
Viscosity @ 40°C, cSt	D-445	30.6
Visual Description		Clear Blue-Green fluid

Lucas developed this new 2-Cycle engine oil specifically for racing and other demanding applications. It leaves a tenacious lubricant film on all wetted parts. A blend of lubricant base stocks, both a synthetic hydrocarbon type and esters are used. The ester portion is a judicious blend of saturated adipate diesters and fatty acid methyl esters, both saturated and unsaturated. Esters have a natural affinity for metal surfaces making them an excellent choice for 2-stroke engines. Lucas blends these lubricant base stocks with a low-ash additive package that insures superior detergency and anti-wear, both at high and low operating temperatures. Formulated to meet API TC and JASO FD performance. This is a low-smoke product and is suitable for air or water-cooled engines. This premium product contains only a small amount of high flash point solvent, yet blends effortlessly with gasoline and resists spark plug fouling. Lucas Racing Formula 2-Cycle Oil is not recommended for snowmobiles or watercraft requiring NMMA TC-W3 ashless 2-stroke oil. Please see Lucas other offerings for these applications. Neither is it recommended for methanol or E85 fueled engines.

# RACING ASSEMBLY GREASE

## NLGI #2 GRADE

PRODUCT # 10891, 10920, 10921



TEST	ASTM	TYPICAL
Color	Visual	Blue
Texture	Visual	Smooth
Penetration Worked 60 Strokes	D-217	265-295
Dropping Point, D-2265 °F (°C) min	D-2265	572 (300)
4 Ball Wear, Scar Diameter, mm	D-2266	0.40
4 Ball EP, Weld Point, Kg	D-2596	500
Base Oil Viscosities		
cSt @ 40°C	D-445	100 min
cSt @ 100°C	D-445	17
Viscosity Index	D-2270	95

Lucas Racing Assembly Grease is a heavy duty and corrosion resistant grease made of calcium sulfonate complex thickener. It is suitable for all metals. It provides anti-wear, extreme pressure properties and dissolves completely in oil. Provides protection during initial start-up and is designed for use on cams and lifters. It is also recommended for use on distributor caps, rocker shafts, rocker tips, pushrod tips, wrist pins and valve guides. Tested and approved by top NASCAR teams.

# EXTREME PRESSURE SYNTHETIC GREASE

## NLGI #1

PRODUCT # 10563, 10584



TEST	ASTM	TYPICAL	SPEC
Thickener Type		Lithium Complex	
Texture		Smooth/Tacky	
Color		Aqua Blue	
Penetration			
0 Strokes @ 77°F	D-217	319	310-340
60 Strokes @ 77°F	D-217	319	310-340
Rust Prevention	D-1743	Pass	Pass
Four Ball E.P. Test	D-2596		
Weld Point, Kg		620	200 Min
Load Wear Index, Kg		109	30 Min
Dropping Point, °F	D-2265	496	428 Min
Fragrance		Peppermint	
Base Oil Viscosity			
cSt @ 40°C	D-445	336	
cSt @ 100°C	D-445	22.0	

Lucas Extreme Pressure Synthetic Grease is a heavily fortified lithium complex grease designed to provide protection under the most adverse racing conditions. Our grease has been proven in NHRA, NASCAR and Sprint Cars. It has excellent extreme pressure properties exceeding the minimum industry standards up to three times. Its unique additive chemistry differentiates us from anything on the market today and provides the ultimate performance our customers come to expect from Lucas products.



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