



WISE SOLUTIONS ultimate performance renewable lubricants are helping to usher in a future where equipment, people, and the environment are well protected. These patented products are superior to their petroleum counterparts, providing many of the benefits of premium synthetic lubricants, but at a lower cost. Advantages include:

- ✓ **Saves time and money** – better lubrication (“lubricity”) means less friction, which saves energy, and improved stability means the lubricants last longer (allows longer maintenance intervals), even in extreme temperature conditions.
- ✓ **Security** – knowing that each product has been thoroughly tested through industry standard methods and in demanding field tests.
- ✓ **High Viscosity Indexes:** providing excellent film strength and equipment protection.
- ✓ **Renewable Materials** – base materials are annually renewable, domestically grown, agricultural crops not subject to petroleum’s price volatility and supply uncertainty; WISE allows volume customers to return used oils for remanufacturing and reuse, eliminating needless waste and disposal costs.
- ✓ **Decreases or eliminates toxins** from the workplace or any enclosed space, natural environment (toxic runoff pollutes waterways and the ocean), making them safer for you and future generations. WISE products have fewer indoor pollutants as well – emitting no “volatile organic compounds” or VOCs.
- ✓ **Decreased environmental and health risks:** Ultimate Biodegradability and or Food Grade NSF certification means easier, more responsible and/or less expensive cleanup of leaks, spills or improper disposal.

WISE gives back 1% of sales to support sustainable agriculture research, marine preservation, and other worthy causes. Customers affect change through their own purchasing power.

The Time Is Now

Governments now mandate¹ the purchase of “biobased” products, creating demand for quality and serving to build awareness in industry and the general public.

Custom Formulas

If you do not see the exact solution you are looking for, contact us to activate our team of lubricant designers. With **WISE** formulation and lab experience, we can design the right product to meet your toughest applications.

¹ US Farm Bill 2002 (Security and Investment Act, Title 9), and Executive Orders.

... *Protecting the Life of Equipment, Environment, and People*

About WISE

WISE makes and sells premium quality, renewable lubricants, cleaners and corrosion protection products that resolve toxicity and disposal problems while delivering superior price/performance.

All products designated *Ultimate Biodegradable* meet or exceed ASTM D-5864 (Pw1 within 28 days). Food grade and edible lubricants comply with USDA / NSF H-1, safe for incidental food contact.

Winter 2006/07

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High Performance
Renewable Lubricants

SUPER HIGH PERFORMANCE LUBRICANTS (RACING)

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Super High Performance Transmission Fluids6



High Performance Renewable Lubricants

Super High Performance Motor Oils

**SAE: 0W20, 5W30,
10W40, 15W40,
15W50, 20W60,
20W70**

Benefits of Patented, Stabilized Base Stocks

Custom Design Formulas

New GF-4 Specifications

Excellent Oxidation Stability

Superior Viscosity Stability

Excellent Mechanical Shear Stability

Since 1993, these unique, first of their kind, High Performance Motor Oils have proven exceptional performance in the racing world, and they are the lubricants of choice for top performing world and national champions. These high performance racing oils have exceeded the performance of conventional petroleum based products and have shown performance equal to and better than synthetic formulas. Excellent performance has also been experienced from the heavy loads (3000 HP @ >9000 RPM) of IHRA Six Time World Champion alcohol fueled dragster to the high-temperature, long-term endurance, championship, road racing.

- Excellent oxidation stability
- Superior viscosity stability
- Excellent mechanical shear stability
- Superior extreme pressure performance
- Superior low volatility performance
- Superior low foam tendency
- Hydrolysis protection
- Protection against excessive seal swell
- Natural corrosion protection
- Gasoline, alcohol, & nitro fuel performance
- Superior flash and fire safety
- Improved biodegradability over mineral oil formulas

These specially formulated engine oils have been designed and tested to run in extreme conditions that would be expected in a variety of high performance applications:

- ✓ Super High Performance Racing Oils
- ✓ Heavy Duty Motor Oils (HDMO)
- ✓ Passenger Car Motor Oils (PCMO)
- ✓ Diesel Engine Oils (Heavy Duty Diesel, or HDD)
- ✓ Light Duty Diesel Engine Oils

Most of these formulations can be adjusted to optimize performance in applications with varying loads, RPM's, fuel type, and motor tolerances, among others.

Although these high performance racing oils have been designed and tested to meet GF-4 engine specifications, and have exceeded many of the engine oil testing requirements, they have not completed engine stand tests for certification. Independent studies have shown that stabilized base stocks can be incorporated into a high performance motor oil program to reduce emissions, increase fuel economy, and meet new GF-4 engine requirements. Contact WISE if interested in GF-4 certification program.

Independent standardized bench tests and field studies have shown that the stabilized base oils will perform as good as or better than mineral and synthetic base stocks. This patented technology allows the base stocks to perform as a high performance formula in high-temperature applications, reducing oil thickening and deposits.

WISE patented, stabilized base stocks produce a super high Viscosity Index (VI) that is higher than conventional mineral and most synthetic based stocks (avg. 220 VI compared to mineral oil at avg. 100 VI). This means the base oils will have less thermal shear (viscosity breakdown) at high temperature and improved oil pressure.

Stabilized base stocks also have excellent mechanical shear stability that allows the engine to run for longer intervals at higher RPM with greater fluid protection. This Mechanical Shear Stability and Superior Viscosity Stability combination will provide more power output with reduced blow-by in the ring and cylinder area. In conventional engines, this could transfer into increase fuel economy and/or reduced emissions.



High Performance Renewable Lubricants

Super High Performance Motor Oils – Continued, Pg. 2

Superior Extreme Pressure Performance	Stabilized base stocks produce an oily, polar effect on the metal surface that enhances pressure absorption at lower temperatures, improving lubricity, and reducing start up friction. The natural oiliness of the base oil is enhanced with the best Extreme Pressure chemistry to produce optimum anti-wear and extreme pressure performance, providing excellent engine durability. Independent, standardized, bench studies have shown that this technology has more than doubled the extreme pressure performance over conventional motor oil formulas.										
Superior Low Volatility Performance	According to NOACK (International Standardized test for Volatility), the patented base stocks have significantly less volatility over solvent refined petroleum (<1% compared with petroleum >15%). This means lubricants properly formulated from these base oils will perform at higher temperatures with less evaporation than mineral and synthetic based stocks. This reduces oil consumption and volatile oil pre-detonation in top cylinder areas.										
Superior Low Foam Tendency	According to ASTM D-892 sequence I, II, III and ASTM D-6082 High-temp foam tests, the stabilized base stocks have performed with zero foam and when formulated into the formulation, have performed better than comparative petroleum and synthetic based stocks. This will allow the base stocks to perform better in high performance oil pump systems under high volume and/or pressure. Less foam means a better lubricating fluid film and steady oil pressure during extensive operation.										
Superior Flash and Fire Safety	No matter how professional the racing program, accidents and catastrophic failure can happen. Reports have already come back on the safety features of these formulas showing reduction of oil fire incidents combined with the explosiveness of fuels. The high flash point of over 600 ⁰ F (COC 320 ⁰ C) can be an exceptional benefit during serious catastrophic failure due to problems from fuel systems and timing malfunctions, creating engine explosion and/or hot oil fires.										
Improved Biodegradability over Mineral Oil Formulas	These are environmentally responsible, high performance, racing oils that are formulated from agricultural plant resources. We believe Earth's environmental future rests in the use of renewable materials.										
To Order	Fax to 831-728-1753 or call 800-491-9473 for Customer Service Visit www.wiserenewables.com or Email sales@wiserenewables.com										
Available Size Container	<table border="1"> <tr> <td>32 oz. Quart</td> <td>1 gal. Bottle</td> <td>5 gal. Pail</td> <td>55 gal. Drum</td> <td>330 gal. Tote</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	32 oz. Quart	1 gal. Bottle	5 gal. Pail	55 gal. Drum	330 gal. Tote					
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Quantity (min.)											
	<u>Ten years of supporting test data and testimonials can be supplied upon request.</u>										
	This product is based on a proprietary and patented anti-oxidant, anti-wear, and cold flow technology. Base stocks are non-GMO agricultural vegetable oils. This stabilized technology provides high performance in high and low temperature applications, reducing oil thickening and deposits.										



High Performance Renewable Lubricants

Super High Performance Motor Oils – Continued, Pg. 3

Typical Specifications TEST	Method	SAE 5W30 Stabilized Base Stocks	Reference API-SJ, 5W30 Mineral Oil	Specifications
Specific Gravity @ 15.6°C	ASTM D-287	0.86	0.87	
API Gravity @ 15.6°C	ASTM D-287	33	30.5	
Viscosity @ 40°C	ASTM D-445	51.5	68.54	
Viscosity @ 100°C	ASTM D-445	10.3	11.24	
Viscosity @ -35°C MRV TP1	ASTM D-4684	20,959 cP	26,026 cP	<60,000 cP at °C
Viscosity Index	ASTM D-2270	194	157	
Flash Point (COC)	ASTM D-92	215°C	200°C	200°C
*ALSO AVAILABLE IN DIFFERENT VISCOSITIES				
ACCELERATED BENCH TESTS				
Dispersant Coker LZ #1323	Lubrizol			
Coker rating		9.6	3.7	0-10 (10=best)
% Unit rating		96	30	0-100 (100=best)
ASTM Foam D892A	ASTM D-892			
Sequence 1		0/0	0/0	10.0/0
Sequence 2		0/0	0/0	50.0/0
Sequence 3		0/0	0/0	10.0/0
Sequence 4 D6082		20/0	100/0	200/50 (GF-3 100/0)
L-38 CU-PB Corrosion LZ #1210Y	Lubrizol			
Weight change CU + PB, mg		56.6	59.4	Baseline Avg. 49
Rating CU_D130		3A	3B	(upper limit 65-lower 33)
Weight change CU, mg		26.8	24.7	The lower the value,
Weight change PB, mg		29.8	34.7	the better the result
Storage Stability LZ #501B (Weeks 1-2-3-4) *	Lubrizol			
RT with steel		V-V-V-V	V-V-V-V	Typical results are C,L,T,V,Z Bad results: S-Solid, G-Gel and E-Sedimentation
65°C with steel		T-T-T-T	T-T-T-T	
0°C at 0°C		C-C-C-C	C-C-C-C	
0°C at RT		C-C-C-C	C-C-C-C	
-18°C at -18°C		T-T-T-T	T-T-T-T	
-18°C at RT		C-C-C-C	C-C-C-C	
Ball Rust Test LZ #1319 (GF-3)	Lubrizol			
Rust Rating avg.		137.7	136.8	0-135 (135=cleanest) <100 Fail
% Variability		2	2	Strive for <30% variability between two runs
III E Ring Land Deposits Test LZ #1289	Lubrizol			
Universal No.		99	Not Completed	0-100 (100=cleanest)
NOACK Volatility % max 1h at 250°C	Lubrizol			
		11.8	21	GF-2 22 (max) GF-3 15 (max)

*C=Clear, T=Clear + Trace; Z=Hazy; L=Slightly Hazy; V=Very Slightly Hazy



High Performance Renewable Lubricants

Super High Performance Transmission Fluids SAE: 20 for Lenco Power Shift

This formula has combined stabilized technology with biobased stocks and EP/Antiwear additives. The result is an Extreme Pressure product with long life heat stability, which offers the protection advantages of increased gear life through extremely high film strength and excellent low temperature performance.

Incorporating the super high viscosity index of the stabilized* base stocks into the formula gives multi-grade synthetic base oil performance by boosting the viscosity index above synthetic levels, without the higher synthetic cost. The super high viscosity index of the base stock naturally improves the thermal shear stability and increases load capacity. The base oil's extremely low volatility increases the flash and fire safety features and reduces the foam tendency in the formula.

This Racing Transmission Fluid is an environmentally responsible lubricant that is formulated from renewable agricultural plant resources. We believe Earth's environmental future rests in the use of renewable material.

Typical Specifications

ISO Grade	32	Fire Point, COC° F.	500
API Gravity @ 60° F.	24.4	Pour Point, ° C.	-20
Pounds/Gallon @ 60° F.	7.55	RBOT	200-250
Specific Gravity @ 60° F.	.907	Copper Corrosion Strip 3hr @ 100°C	1A
VISCOSITIES:		4 Ball Wear, 1h, 167° F, 1200 RPM, 40kg	.32 (max.)
@100° C., cSt.	6.9	FZG Test	>12
@40° C., cSt.	32	Hydrolytic Stability, (D-2619)	Pass
Viscosity Index	183	Foam Sequence I, II, III (D-892)	Pass
Flash Point, COC° F.	470	Rust Prevention, (D-665)	Pass

This product is based on a proprietary and patented anti-oxidant, anti-wear, and cold flow technology. Base stocks are non-GMO agricultural vegetable oils. This stabilized technology provides high performance in high and low temperature applications, reducing oil thickening and deposits.

To Order

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