



## Renewable Lubricants, Inc.

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## Bio-Synthetic SHP Motor Oil SAE 5W20 PCMO

**STABILIZED**™  
by Renewable Lubricants

### *"Biobased Lubricants that Perform Like Synthetics"*

Bio-Synthetic Super High Performance Motor Oil SAE 5W20 is a biobased motor oil that is designed to provide optimum performance in high output gasoline engines in passenger cars, vans, sport utility vehicles, and light trucks requiring API SM, SL, and SJ.

#### HIGH PERFORMANCE BENEFITS OF STABILIZED HOBS FORMULATIONS:

- Excellent oxidation stability
- Superior viscosity stability
- Excellent mechanical shear stability
- Superior extreme pressure performance
- Improved biodegradability over mineral oil formulas
- Hydrolysis protection
- Superior low volatility performance
- Superior low foam tendency
- Tested by the USDA as Biobased

This biobased lubricant is formulated to exceed the Original Equipment Manufactures (OEM) requirements for new vehicles, but vehicles with higher mileage and equipment with high hours need a different lubricant that improves performance in these out of warranty machines. As the engine wears the lubrication film needs to be improved and the additive technology should also be increased to prevent wear and condition the seals for longer life. Unlike conventional motor oils, this biobased formula has special additives and additional booster additives that help improve engine life. **(Lubricity Enhanced)**

Since 1993, RLI's unique, first of their kind, Bio-Super 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 Seven Time World Champion alcohol fueled dragster to the high-temperature, long-term endurance, championship, road racing. These specially formulated racing oils have been designed and tested to run in extreme conditions that would be expected with the motor sport, high performance engines.

This High Performance Lubricant is formulated using the most advanced and newest API SM approved additives. While no formal engine oil license performance is implied or guaranteed in this formulation, the key physical properties as defined by SAE J300 are met. This biobased formulation is inherently biodegradable and is designed to reduce emissions over conventional formulas.

STABILIZED by Renewable Lubricants \* is RLI's trademark on their proprietary and patented anti-oxidant, anti-wear, and cold flow technology. High Oleic Base Stock (HOBS) are agricultural vegetable oils. This Stabilized technology allows the HOBS to perform as a high performance formula in high and low temperature applications, reducing oil thickening and deposits.

US Patents: 5,736,493, 5,863,872, 5,990,055, 6,383,992, 6,534,454 and foreign PCT

\* Trademark of Renewable Lubricants, Inc.

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Availability F.O.B. :Hartville, Ohio, USA Quarts 1 Gallon 5 Gallon Pails Drums Bulk

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<b>TYPICAL SPECIFICATIONS</b>	<b>METHOD</b>	<b><u>SAE 5W20</u></b>
<b>TEST</b>		
Specific Gravity @ 15.6°C	ASTM D-287	<b>.88</b>
Viscosity @ 100°C	ASTM D-445	<b>8.8</b>
Viscosity @ 40°C	ASTM D-445	<b>45</b>
Viscosity Index	ASTM D-2270	<b>179</b>
Flash Point (COC)	ASTM D-92	<b>225°C</b>
Pour Point	ASTM D-97	<b>-40</b>
CCS @ -25°C, cp CCS @ -30°C, cp	ASTM-D-5293	<b>Max – 6,600 Min – 6,200</b>
MRV-TP1 @ -30°C, cP Yield Stress, Pa	ASTM-D-4684	<b>22,000 None5</b>
HHS @ 150° C, Apparent Viscosity, cP	ASTM-D-4683	<b>&gt;2.9</b>
Noack Volatility %		<b>11.5</b>
Energy Conserving		<b>YES</b>

USDA – Beltsville  
 U.S. Coast Guard  
 Pictured Rocks National Lakeshore  
 Sleepy Hollow State Park  
 Point Reyes National Seashore  
 Wells State Park  
 Cape Cod National Seashore  
 Atkinson Contractors  
 Mark Thomas Racing  
 Volunteer Chevy  
 NOAA and the Great Lakes Region  
 Portage Area Regional Transit Authority (PARTA)