



Bio-SynXtra™ HD SHP Plus Racing Motor Oils SAE 5W40

Proven Performance in Old and New Vehicles:

This patented biobased lubricant is formulated to meet and exceed the Original Equipment Manufactures (OEM) requirements and has proven to improve performance in new vehicles. In addition to newer vehicles, older vehicles with higher mileage and equipment with higher hours using conventional motor oils can also 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 additional wear and condition the seals for longer life. Unlike conventional motor oils, this patented biobased formula has special booster additives and superior viscosity stability that help improve engine life in new and old vehicles. The super high viscosity index is key to reduced fuel dilution, reduced wear, and improved fuel economy.

TYPICAL SPECIFICATIONS	METHOD	<u>SAE 5W40</u>
Viscosity @ 100°C	ASTM D-445	14.0
Viscosity @ 40°C	ASTM D-445	76.9
Viscosity Index	ASTM D-2270	190
Flash Point (COC)	ASTM D-92	230°C
Pour Point	ASTM D-97	-45
CCS @ -30°C, cp	ASTM-D-5293	5900
MRV-TP1 @ -35°C, cP	ASTM-D-4684	13,000
Yield Stress, Pa		None
HTHS @ 150° C, Apparent Viscosity, cP	ASTM-D-4683	3.0
NOACK Volatility % max 1h at 250°C	NOACK	4.0
Total Base Number	ASTM D-2896	10.3
Sulfated Ash, % max	ASTM D-874	1.0
Phosphorus, % max	ASTM D-4951	0.12
Sulfur, % max	ASTM D-4951	0.4

Following are some of the organizations and companies who are using RLI's Bio-Engine Oils successfully:

Many USDA Facilities
 U.S. Coast Guard
 U.S. Army
 National Aeronautics and Space Administration (NASA)
 Pictured Rocks National Lakeshore
 Sleepy Hollow State Park
 Point Reyes National Seashore
 Cape Cod National Seashore
 Atkinson Contractors
 Mark Thomas Racing
 Volunteer Chevy
 NOAA and the Great Lakes Region