

Bio-SynXtra™ HD SHP Plus Racing Motor Oils

High-Performance Racing Motor Oils for Turbocharged, Supercharged, and Extreme Load Engines

Bio-SynXtra™ HD SHP Plus Racing Motor Oils are specially engineered for competition-grade turbocharged and supercharged engines operating under extreme stress conditions. Developed using patented Stabilized™ HOBS (High Oleic Base Stocks) technology, these oils deliver superior viscosity stability, wear resistance, and low volatility; exceeding synthetic and petroleum-based lubricants in performance. They provide the energy-conserving characteristics of a multi-grade formulation while replacing single-viscosity oils in motorsports environments.

Benefits

- Formulated for high RPM, high-stress motorsport and racing applications
- Superior thermal and mechanical shear stability
- Outstanding anti-wear and extreme pressure performance
- Enhanced sealing between rings and cylinder walls increases power output
- Lower volatility reduces oil consumption and carbon buildup
- Improved lubricity and startup protection from HOBS' polarity clinging to metal
- Compatible with all fuel types including alcohol-based
- Maintains stable oil pressure and lower operating temps
- Excellent resistance to sludge, varnish, and oxidation
- Proven in IHRA 3000 HP dragsters, endurance racing, IMSA, and Formula Drift

Application / New Filling

Recommended for use in:

- High-performance turbocharged and supercharged gasoline engines
- Competitive motorsport engines operating under extreme heat and RPM
- Vehicles requiring heavy viscosity grades not covered by standard licenses
- Rotary, overhead cam, and conventional valve train engine designs
- Custom engine builds where standard PCMO oils are insufficient

OEM Specifications and Compatibility:

- Exceeds physical performance properties of API SH, SJ, SL, SM, SM+, CD, and CF
- SAE 10W60 formulation meets ACEA A3/B4 (BMW M Series and similar specs)
- While not API licensed, exceeds key chemical and physical requirements
- Custom formulations and viscosities available upon request

STABILIZED™
by Renewable Lubricants

Specifications and Approvals

- Stabilized™ HOBS Technology
 - U.S. Patents: 5,990,055; 6,383,992; 6,534,454
 - Canada Patents: 2,498,812; 2,538,768; 2,609,756
 - Mexico Patents: 275,334; 308,832
- In service with:
 - National and world racing champions
 - Mark Thomas Racing, Formula Drift competitors
 - Endurance racing teams and alcohol-fueled dragsters
 - International Motor Sport Association (IMSA)

Typical Specifications

	METHOD	<u>SAE</u> <u>20W50</u>	<u>SAE</u> <u>10W60</u>	<u>SAE</u> <u>20W60</u>	<u>SAE</u> <u>20W70</u>	<u>SAE</u> <u>0W40</u>	<u>SAE</u> <u>0W20</u>	<u>SAE</u> <u>5W30</u>	<u>SAE</u> <u>10W30</u>
Viscosity @ 100°C	ASTM D-445	18	23.2	24.0	30.0	14	6.9	10.9	11
Viscosity @ 40°C	ASTM D-445	111.5	148.0	172.0	225.0	76.9	37.3	58.5	67
Viscosity Index	ASTM D-2270	179	187	170	174	190	146	183	156
Flash Point (COC)	ASTM D-92	250°C	255°C	260°C	262°C	230	227	230	233
Pour Point	ASTM D-97	-30	-42	-30	-30	45	-46	-40	-37
RLI Product Item #		85370	85400	85410	85420	85450	85460	85470	85480