



Renewable Lubricants, Inc.
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Bio-SynXtra™ SHP SAE 5W20 PCMO Motor Oil (Low Ash)

Biobased Passenger Car Motor Oil for Modern and High-Mileage Engines

Bio-SynXtra™ SHP SAE 5W20 PCMO is a patented biobased motor oil formulated for high-performance applications in naturally aspirated, turbocharged, and supercharged gasoline engines. Designed to exceed the demands of modern vehicles requiring ILSAC GF-5 and API SN/SM performance, this lubricant also enhances performance in high-mileage engines. Stabilized™ provide a super high viscosity index, superior antiwear protection, and reduced emissions; making it a cleaner, more energy-efficient option.

Benefits

- Exceeds ILSAC GF-5 and API SN/SM performance (unlicensed formula)
- Superior antiwear and extreme pressure protection
- Enhanced fuel economy and reduced tailpipe emissions
- High oxidation stability and excellent cold start pumpability
- Ultra-low volatility for reduced oil consumption
- Booster additives extend protection for worn and high-mileage engines
- Stabilizes viscosity, reduces fuel dilution and wear
- Biodegradable and listed with USDA BioPreferredSM
- Proven performance in professional racing and high-output applications
- Compatible with catalytic converter requirements

Application / New Filling

Recommended for use in:

- Passenger cars, vans, SUVs, and light-duty trucks
- Engines requiring SAE 5W20, ILSAC GF-5, API SN, SM (lubricity-enhanced, energy-conserving)
- Turbocharged/supercharged and naturally aspirated gasoline engines
- Older engines requiring enhanced seal conditioning and wear control
- Environments requiring reduced emissions and improved fuel efficiency

OEM Specifications and Compatibility:

- Meets physical and chemical property targets for ILSAC GF-5, API SN/SM
- GM dexos1 compatible (unlicensed formula)
- SAE J300 and API/ILSAC base oil interchange test compliant



Specifications and Approvals

- Stabilized™ HOBS Technology
 - U.S. Patents: 5,990,055; 6,383,992; 6,534,454
 - Canada: 2,498,812; 2,538,768; 2,609,756
 - Mexico: 275,334; 308,832
 - Successfully used by:
 - U.S. Coast Guard, U.S. Army, USDA Facilities, NASA
 - NOAA, PARTA, and multiple U.S. National Parks

TYPICAL SPECIFICATIONS		
Viscosity @ 100°C	ASTM D-445	8.8
Viscosity @ 40°C	ASTM D-445	45
Viscosity Index	ASTM D-2270	179
Flash Point (COC)	ASTM D-92	227°C
Pour Point	ASTM D-97	-40
CCS @ -30°C, cp	ASTM-D-529	Max – 6,600
MRV-TP1 @ -30°C, cP	ASTM-D-4684	22,000
Yield Stress, Pa		None
HTHS @ 150° C, Apparent Viscosity, cP	ASTM-D-4683	>2.9
NOACK Volatility %		11.5
Energy Conserving		YES