



Renewable Lubricants, Inc.
476 Griggy Rd., P.O. Box 474
Hartville, Ohio 44632-0474

Bio-SynXtra™ SHP SAE 5W30 PCMO Motor Oil (Low Ash)

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

Bio-SynXtra™ SHP SAE 5W30 PCMO is a patented, biobased motor oil designed for high-output turbocharged and supercharged gasoline engines in passenger vehicles. Engineered with Stabilized™ technology, this oil exceeds the performance requirements of ILSAC GF-5, API SN, and API SM categories. It delivers exceptional oxidation stability, wear protection, low volatility, and enhanced fuel economy—making it ideal for both new and high-mileage vehicles.

Benefits

- Meets and exceeds ILSAC GF-5, API SN, and API SM (unlicensed formula)
- Outstanding antiwear and extreme pressure performance
- Excellent cold start performance and low-temperature pumpability
- Superior oxidative stability and low foaming characteristics
- Improved fuel economy and reduced tailpipe emissions
- High viscosity index (~220) reduces viscosity breakdown and oil thickening
- Compatible with catalytic converters; energy-conserving formulation
- Inherently biodegradable and USDA BioPreferredSM listed
- Booster additives improve performance in worn engines and high-mileage equipment
- Proven in motorsports and endurance applications under high-load conditions (up to 3000 HP)

Application / New Filling

Recommended for use in:

- Modern gasoline-powered cars, SUVs, vans, and light-duty trucks
- Engines requiring SAE 5W30 PCMO with ILSAC GF-5/API SN/SM performance
- Turbocharged and supercharged engines
- High-mileage vehicles and out-of-warranty engines needing improved seal conditioning
- Situations demanding reduced wear, fuel dilution, and high shear stability

OEM Specifications and Compatibility:

- Meets physical performance requirements of SAE J300
- API SN/SM and ILSAC GF-5 compatible (unlicensed)
- GM dexos1 equivalent performance
- Passed required base oil interchange testing for SN/GF-5 performance

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
- Proven performance in use by:
- USDA Facilities, U.S. Army, U.S. Coast Guard, NASA, NOAA
- National Parks including Cape Cod, Point Reyes, Pictured Rocks
- Mark Thomas Racing, Volunteer Chevy, PARTA Transit Authority

TYPICAL SPECIFICATIONS		
Viscosity @ 100°C	ASTM D-445	10.8
Viscosity @ 40°C	ASTM D-445	59
Viscosity Index	ASTM D-2270	177
Flash Point (COC)	ASTM D-92	230°C
Pour Point	ASTM D-97	-42°C
CCS @ -30°C, cP	ASTM-D-5293	Max – 6,600
MRV-TP1 @ -35°C, cP	ASTM-D-4684	22,000
Yield Stress, Pa		None
HTHS @ 150°C, Apparent Viscosity, cP	ASTM-D-4683	>2.9
NOACK Volatility %		11.8
Energy Conserving		YES