

# OKINAWA SYNTHETIC GASOLINE ENGINE OIL SAE 5W-30 API SP

## (Premium Fully Synthetic Passenger Car Engine Oil-with LSPI Protection)

### DESCRIPTION

OKINAWA SYNTHETIC GASOLINE ENGINE OIL SAE 5W-30 API SP is a premium quality, full-synthetic automotive engine oil designed to provide maximum engine protection for both turbocharged gasoline direct injection, conventional gasoline-fueled and flex-fueled passenger cars and light trucks under all operating conditions. It is particularly recommended for vehicles operating at extreme temperatures or under severe driving conditions, such as towing heavy loads.

OKINAWA SYNTHETIC GASOLINE ENGINE OIL SAE 5W-30 API SP exceeds new car warranty requirements as defined by ILSAC GF-6. It is uniquely formulated to help combat low speed pre-ignition (LSPI) in turbocharged gasoline direct injection engines. It meets or exceeds "Resource Conserving" requirements for fuel economy improvement, emission system and turbocharger protection, and protection of engines operating on ethanol-containing fuels up to E85. It is backward serviceable for use where API SN or earlier "S" category engine oils are recommended.

### PROPERTIES

OKINAWA SYNTHETIC GASOLINE ENGINE OIL SAE 5W-30 API SP is formulated with synthetic base stocks. This fully synthetic formula offers better protection against oil thinning and deposit buildup in hot conditions; lower volatility for reduced oil consumption; and faster oil circulation at low temperatures for easier starting and better protection during cold starts when compared with conventional engine oils.

### APPLICATIONS

- Turbocharged gasoline direct injection, conventional gasoline-fueled and flex-fuel passenger cars, light trucks and sport utility vehicles, including gasoline-electric hybrids, especially when operating under severe conditions
- Four-stroke cycle gasoline engines in other mobile or stationary equipment

### PERFORMANCE FEATURES AND BENEFITS

- Helps protect against low speed pre-ignition (LSPI) in turbocharged gasoline direct injection engines (TGDI)
- Exceeds ILSAC GF-6 requirements for new cars under warranty
- Enhanced performance benefits at extreme temperatures compared with conventional engine oils
- Outstanding resistance to viscosity and thermal breakdown at high temperatures
- Protects against sludge and varnish formation
- Protects against rust and bearing corrosion
- Low volatility for reduced oil consumption
- Excellent low temperature pumpability for protection during cold starts
- Highly resistant to foaming
- Formulated to protect turbochargers and emission control system catalysts

### RECOMMENDATIONS / SPECIFICATIONS

International Standards : ACEA C3, ACEA C2, API Service SP, SN PLUS with Resource Conserving

Meets or exceeds: MB-Approval 229.51, BMW Longlife-04, MB-Approval 229.52, Opel OV0401547 , RN0700/RN0710

### TYPICAL TECHNICAL PROPERTIES

Viscosity Grade, SAE J300	5W-30
PRODUCTS CODE:	PCMO-24031P
Density at 15°C, g/ml, ASTM D4052	0.853
Cold Cranking Viscosity(CCS), mPa s, ASTM D5293	5700 @-30°C
Kinematic Viscosity at 40°C, mm <sup>2</sup> /s, ASTM D445	68.6
Kinematic Viscosity at 100°C, mm <sup>2</sup> /s, ASTM D445	12.1
Viscosity Index, ASTM D2270	175
Flash Point(COC), °C, ASTM D92	228
Pour Point, °C, ASTM D97	-42
Total Base Number (TBN), mg KOH/g, ASTM D2896	7.5

Note: These characteristics are typical of current production. While future production will conform to current specification, variations in these characteristics may occur.  
PDS/AL/046P-6800INF-2/02\*, 10.07.24, Page 1/1  
\* supersedes all previous versions

Packing : 700 ml ,800 ml , 1L , 2L, 3L, 4L, 5L, 6.5L, 7L, 8L,16L,18L, 20L, 25L, 200L, 205L, 208L, 210L