



## NATIONAL | Premium Full Synthetic Engine Oils

### Product Description

NATIONAL Premium Full Synthetic is formulated with higher quality synthetic base oils and premium additive technology to provide exceptional engine protection even under harsh stop-and-go driving conditions, extreme temperatures and heavy loads. It provides outstanding protection for vehicles with direct-injection and turbochargers and those that require a full synthetic motor oil.

NATIONAL Premium Full Synthetic engine oils are specifically formulated to meet the latest API and ILSAC requirements of aged oil LSPI protection, increased limits for fuel economy, piston deposits, timing chain wear, & low temperature pumpability, along with a cap on sulfated ash level for gasoline particulate filter compatibility. These engine oils continue to provide excellent protection against sludge, piston cleanliness, engine rust and corrosion for all engine types under severe service or low temperature operation.

### Industry and OEM Applications

- ◆ Licensed API **SQ** and backwards compatibility<sup>1</sup> with prior “S” categories
- ◆ ILSAC GF-7A and GF-7B<sup>1</sup>, Resource Conserving
- ◆ CHRYSLER MS-6395
- ◆ Meets the requirements for FORD<sup>2</sup>:
  - WSS-M2C970-A1 (5W-20)
  - WSS-M2C971-A1 (5W-30)
  - WSS-M2C972-A1 (0W-20)
- ◆ Toyota, Honda, Nissan, and Hyundai<sup>3</sup>

### Applications<sup>4</sup>

Domestic and imported vehicles with Turbocharged gasoline direct-injection (TGDI), conventional gasoline-fueled and flex-fuel passenger cars, light trucks, and sport utility vehicles, including gasoline-electric hybrids, especially when operating under severe conditions or anywhere the manufacturer calls for ILSAC GF-7A<sup>1</sup> or API SQ rated oils for engine application.

### Features

- ✓ **Excellent fuel economy**, formulated to reduce energy losses due to viscosity
- ✓ **Sustainability**, contributes to lowering greenhouse gas emissions by helping vehicles consume less fuel
- ✓ **Superior Engine Protection**, meeting stricter requirements for piston deposit control and aged-oil LSPI mitigation; these measures ensure engines stay cleaner and operate more efficiently over extended periods, thus boosting engine longevity and overall vehicle performance
- ✓ **Improved resistance to oxidation and thermal breakdown**, GF-7 oils will continue to perform optimally throughout their lifespan, offering better protection against wear and tear
- ✓ **Excellent** low temperature pumpability for protection during cold starts
- ✓ **Extended drain intervals**, provide unsurpassed protection against sludge, varnish and deposit buildup to keep modern engines running cleaner, stronger, and longer



Technical Data <sup>5</sup>



SAE GRADE		0W-16	0W-20	0W-30	5W-20	5W-30	10W-30
Product Code		07-1706287	07-130020	07-1900838	07-195520	07-195530	07-195130
SDS Number		S159					
Viscosity @ 100°C, cSt	D7279	7.645	8.636	10.93	8.986	10.73	10.76
Viscosity @ 40°C, cSt	D7279	41.52	44.88	59.26	50.47	62.25	67.43
Viscosity Index	D2270	155	174	179	160	164	150
Specific Gravity 60°F	D4052	0.8492	0.8481	0.8476	0.8520	0.8518	0.8541
Pour Point, °C	D5950	-42	-45	-42	-42	-42	-39
Cold Crank Simulator, cP	D5293	5,783 (-35°C)	5,979 (-35°C)	5,763 (-30°C)	4,426 (-30°C)	4,958 (-30°C)	4,513 (-25°C)
Color ASTM	D1500	L3.0	L3.0	L3.0	L3.0	L3.0	L3.0
Flash Point, °C	D92	229	233	222	224	237	251
TBN, mg KOH/g	D2896	7.5	7.6	7.3	7.3	7.4	7.2
Noack Volatility, %	D5800	12.6	12.4	10.4	10.9	11.1	7.1
HTHS, cP	D4683	2.4	2.7	3.0	2.6	3.0	3.0

1. ILSAC GF-7B applies only to SAE 0W-16 and it is exclusively backwards compatible with GF-6B
2. Backwards compatible with Ford WSS-M2C960-A1 (5W-20), WSS-M2C961-A1 (5W-30), WSS-M2C962-A1 (0W-20), and GM6094M/GM4718M (obsolete).
3. Require ILSAC GF-7 approved oils for service fill. Additional unpublished specifications for factory fill and genuine oils.
4. Always follow the operator's manual for recommended viscosity grade and API service classification.
5. Minor variations in product typical test data are to be expected in normal manufacturing. Certification Marks: "Shield", "Starburst", and the Service Symbol "Donut" are API's trademarks and cannot be used without proper license.

The recommended shelf life for these lubricants is typically 60 months from manufacturing date when stored in the original sealed containers in a sheltered environment under good housekeeping conditions and at typical ambient temperatures.

The product described above is designed for a specific use and may not be valid for other uses not specified in our specification sheet or in applications not requiring this specific product. Pinnacle Oil believes the information presented in this specification is accurate at the time written and is based upon internally generated information and information as presented by its vendors. No representation, warranty, or guarantee is made as to its accuracy or completeness. We do not accept any liability for any loss or damage that may occur from the use of this information.

