



TECHNEWS

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MARATHON PERFORMANCE SERIES

PREMIUM AUTOMOTIVE MOTOR OILS

PRODUCT DESCRIPTION

MARATHON PERFORMANCE motor oil is a premium quality, part-synthetic automotive engine oil designed to provide excellent engine protection. Specifically formulated to prevent low speed pre-ignition (LSPI ¹) - the primary driver for the API SN Plus supplemental standard - and that also help protect the turbocharger components in Turbocharged Gasoline Direct Injection (TGDI) engines.

MARATHON PERFORMANCE motor oil is formulated to provide an excellent protection against sludge, engine rust and corrosion, resist oil thickening and foaming by providing enhanced oxidation control under severe service conditions and low temperature operating conditions.

INDUSTRY AND OEM SPECIFICATIONS

- ◆ API SN, **SN Plus**
- ◆ Resource Conserving, ILSAC GF-5 ²
- ◆ API SM, SL, SJ
- ◆ GM6094M/GM4718M (obsolete)
- ◆ FORD WSS-M2C945-**B1** (5W-20)
- ◆ FORD WSS-M2C946-**B1** (5W-30)
- ◆ CHRYSLER MS-6395S
- ◆ Ford WSS-M2C945-A/ M2C946-A

APPLICATIONS ³

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 where the manufacturer calls for API SN, SN Plus rated oils.

FEATURES

- ✓ Formulated to protect emissions control system catalysts
- ✓ Advanced varnish and sludge protection to keep engine clean by minimizing deposit formation
- ✓ Excellent fuel economy
- ✓ Good low temperature pumpability for protection during cold starts
- ✓ Available in five multi grade viscosities



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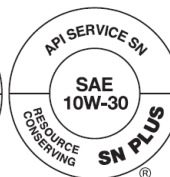
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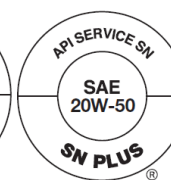
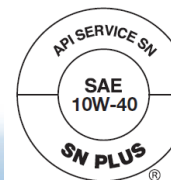
PREMIUM AUTOMOTIVE MOTOR OILS

TECHNICAL DATA

(typical values)



SAE GRADE		5W-20	5W-30	10W-30	10W-40	20W-50
Product Number		07-392520	07-392530	07-392130	07-392140	07-135011
SDS Number		S130	S130	S130	S130	S131
Resource Conserving, ILSAC GF-5		YES	YES	YES	NO	NO
Viscosity @ 100°C, cSt	D445	8.6	10.0	10.3	14.8	18.27
Viscosity @ 40°C, cSt	D445	49.2	58.9	64.2	99.3	167.8
Viscosity Index	D2770	153	157	148	155	121
Specific Gravity at 60°F	D4052	0.859	0.858	0.860	0.861	0.882
Pour Point, °C	D5950	-48	-48	-45	-45	-36
Flash Point, °C	D92	205	210	210	212	220
Color ASTM	D1500	3.0	3.0	3.0	3.5	3.5
CCS, cP	D5293	5,500 (-30°C)	5,930 (-30°C)	4,660 (-25°C)	5,900 (-25°C)	8,000 (-15°C)
Noack Volatility, %w	D5800	13	12	11	14	4
TBN	D2896	9.6	10.7	10.1	9.7	9.7



- 1) To learn more about LSPI visit <http://www.infineuminsight.com/insight/jun-2017/lspi-and-lubricant-auto-ignition>
 - 2) Except 10W-40
 - 3) Always follow operator's manual for recommended viscosity grade and API service classification
- Certification Mark "Starburst" and the Service Symbol "Donut" are API's trademarks and cannot be used without proper license
For GM vehicles model years 2011 and after, see our National™ dexos1™ Gen 2

The recommended shelf life for these oils is typically 48 months from manufacturing date when stored properly in the original sealed containers