

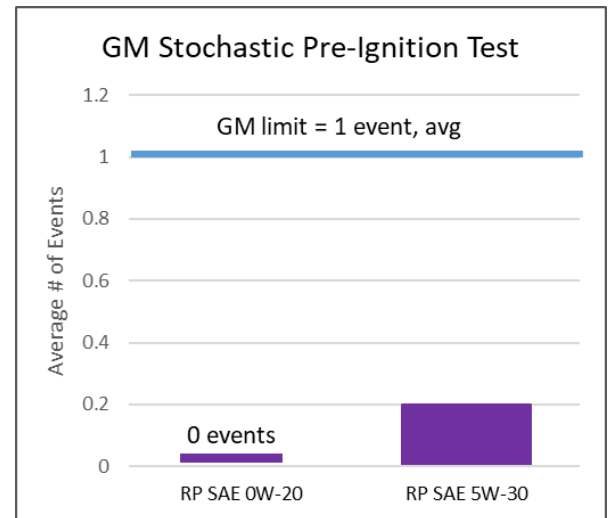
## High Performance Motor Oil

### API LICENSED MOTOR OIL

Royal Purple<sup>®</sup> High Performance Motor Oil combines premium base oils with proprietary additive technologies to create a high-performance synthetic engine oil that optimizes performance and protection. Royal Purple<sup>®</sup> High Performance Motor Oils carry the current API and ILSAC engine oil licenses, as well as the GM dexos<sup>™</sup>1 gasoline engine oil approval.

### ILSAC GF-6 AND GM DEXOS<sup>™</sup>1

Modern gasoline direct injection (GDI) engines have achieved levels of power and fuel economy never before possible in passenger car engines. As a result, smaller engines operate at much higher loads across all engine speeds. This has caused increased wear in critical areas of the engine, and created a destructive phenomenon called low-speed pre-ignition (LSPI). The unique, state-of-the-art additive technology in Royal Purple High Performance engine oils is designed specifically to address these issues, and help engines maintain performance and reliability.



### PERFORMANCE ADVANTAGES

- **BETTER WEAR PROTECTION** - Enhanced additive technology prevents metal-to-metal contact beyond both GM dexos<sup>™</sup>1 and ILSAC GF-6A specs
- **INCREASED PROTECTION AGAINST LSPI** - Advanced additive chemistry helps reduce Low Speed Pre-Ignition in today's turbocharged Gasoline Direct Injection engines.
- **INCREASED FUEL EFFICIENCY** - A low coefficient of friction results in optimized fuel efficiency (our 5W-30 meets the fuel economy requirements of a 0W-20 oil; our 0W-20 meets fuel economy requirements of a 0W-16)
- **BETTER PROTECTION FOR VEHICLE EXHAUST EMISSIONS EQUIPMENT** - Patented anti-wear additive chemistry minimizes the harmful effects exhaust gases pose to the catalyst
- **IMPROVED COMPATIBILITY WITH FUELS CONTAINING ETHANOL** - Patented additive technology prevents the white sludge and lubrication starvation that can occur with higher concentration gasoline-ethanol blends
- **SUPERIOR CORROSION PROTECTION** - No rust observed in standard industry testing



# TECHNICAL DATA SHEET

## OEM SPECIFICATIONS

- SAE 0W-20:** Licensed and approved GM dexos™1-Gen 3, API SP Resource Conserving and ILSAC GF-6A Meets Chrysler FCA US MS-6395, Ford WSS-M2C962-A specifications
- SAE 5W-20:** Licensed API SP Resource Conserving and ILSAC GF-6A Meets Chrysler FCA US MS-6395, Ford WSS-M2C960-A specifications
- SAE 5W-30:** Licensed and approved GM dexos™1-Gen 3, API SP Resource Conserving and ILSAC GF-6A Meets Chrysler FCA US MS-6395, Ford WSS-M2C961-A specifications
- SAE 10W-30:** Licensed API SP Resource Conserving and ILSAC GF-6A Meets Chrysler FCA US MS-6395, GM 6094M specifications

Typical Physical Properties					
Property	Test Method	0W-20	5W-20	5W-30	10W-30
Viscosity @ 40°C, cSt	ASTM D445	45.8	46.1	62.4	61.6
Viscosity @ 100°C, cSt	ASTM D445	8.6	8.2	10.5	10.1
Viscosity Index	ASTM D2270	168	153	159	150
Cold Crank Simulator, cP	ASTM D5293	5,729 @-35°C	4,487 @-30°C	5,719 @-30°C	3,637 @-25°C
HTHS, @150°C, cP	ASTM D5481	2.7	2.6	3.1	3.2
Flash Point, °C (°F)	ASTM D92	232 (450)	227 (440)	238 (460)	243 (470)
Pour Point, °C (°F)	ASTM D97	-47 (-53)	-48 (-54)	-45 (-49)	-45 (-49)
TBN, mg KOH	ASTM D2896	8.9	8.9	8.6	8.7

To the best of our knowledge, the information contained herein is accurate, but is given without warranty or guarantee. We assume no liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of the suitability of any information or material for the use contemplated, the name of use and whether there is any infringement of patents is the sole responsibility of the user.

© 2020 Calumet Specialty Products, LLC. All Rights Reserved.

Distributed By Calumet Branded Products, LLC | 2780 Waterfront Pkwy, E. Dr., Suite 200 | Indianapolis, IN 46214 | Technical Services: 888-382-6300 | www.royalpurple.com

11/11/2022