

Superior Chemistry. Superior Performance.



0W-20 Full Synthetic Motor Oil

Printed On: Feb 9, 2014

Formulated to exceed ILSAC GF-4 performance requirements for new cars and beyond, Mag 1 0W-20 Full Synthetic Motor Oil is the preferred grade of top Japanese manufacturers

Benefits include:

- Formulated with High Phosphate Retention ZDP for extended wear performance
- Maximizes Fuel Economy
- Superior cold temperature performance

INSPECTION INFORMATION

TEST METHOD

TYPICAL VALUE

| | | |
|--|---------------------|---------------|
| Specific Gravity @ 60°F (15.6°C) | ASTM D4052 | 0.8512 |
| Viscosity @ 40°C cSt | ASTM D445 | 42.31 |
| Viscosity @ 100°C cSt | ASTM D445 | 8.06 |
| Viscosity Index | ASTM D2270 | 167 |
| Pour Point °C (°F) | ASTM D5950 | -48°C (-54°F) |
| Color | ASTM D 1500 | 2.5 |
| Cold Cranking Simulator at (°C), cP | ASTM D5293 | 5402 (-35) |
| High Temperature / High Shear Vis at 100°C, cP | ASTM D 6616 | 5.87 |
| High Temperature / High Shear Vis at 150°C, cP | ASTM D5481 | 2.65 |
| Noack Volatility, % loss | ASTM D 6375 | 13.9 |
| Calcium, wt. % | ASTM D 5185 | 0.214 |
| Zinc, wt. % | ASTM D 5185 | 0.085 |
| Phosphorus, wt. % | ASTM D 5185 | 0.077 |
| Sulfur, wt. % | ASTM D 4951 | 0.333 |
| Boron, wt. % | ASTM D 5185 | 0.023 |
| Molybdenum, wt. % | ASTM D 5185 | 0.0079 |
| Sulfated Ash, wt. % | ASTM D 874 | 0.92 |
| Nitrogen, wt. % | ASTM D 4629 | 0.102 |
| Pumping Viscosity at (°C), cP | ASTM D4684 | 13,687 (-40) |
| Shear Stability | ASTM D 6278 | 7.78 |
| Foam Seq. I (Tendency/Stability), mL | ASTM D 892 (Opt. A) | 0/0 |
| Foam Seq. II (Tendency/Stability), mL | ASTM D 892 (Opt. A) | 0/0 |
| Foam Seq. III (Tendency/Stability), mL | ASTM D 892 (Opt. A) | 0/0 |
| High Temperature Foaming, static foam | ASTM D 6082 (Opt A) | 40/0 |
| Gravity, °API | ASTM D287 | 34.74 |
| TBN, mgKOH/g | ASTM D 2896 | 7.9 |

Superior Chemistry. Superior Performance.



CLAIMS INFORMATION

Printed On: Feb 9, 2014

| | |
|------------------|--------------------|
| API SN | Approved |
| API SM | Meets Requirements |
| API SL | Meets Requirements |
| Chrysler MS-6395 | Meets Requirements |
| ILSAC GF-5 | Approved |
| ILSAC GF-4 | Meets Requirements |