

Description

FEDERATED 10W30 FS 6/1QT

| Inspection Information | Test Method | Typical Value |
|--|--------------------|----------------------|
| Gravity, °API | ASTM D287 | 34.6 |
| Specific Gravity at 60°F (15.6°C) | ASTM D4052 | 0.8519 |
| Flash Point, °C | ASTM D92 | 225 |
| Flash Point, °F | ASTM D92 | 437 |
| Viscosity at 40°C, cSt | ASTM D445 | 63.86 |
| Viscosity at 100°C, cSt | ASTM D445 | 10.35 |
| Viscosity Index | ASTM D2270 | 150 |
| Pour Point, °C (°F) | ASTM D5950 | -42°C (-44°F) |
| Cold Cranking Simulator at (°C), cP | ASTM D5293 | 4000 (-25) |
| High Temperature / High Shear Vis at 150°C, cP | ASTM D5481 | 3.18 |
| Noack Volatility, % loss | ASTM D5800 | 5.2 |
| Color | ASTM D1500 | 2.5 |
| Zinc, wt. % | ASTM D5185 | 0.07 |
| Phosphorus, wt. % | ASTM D5185 | 0.064 |
| Calcium, wt. % | ASTM D5185 | 0.119 |
| Sulfur, wt. % | ASTM D4951 | 0.235 |
| Magnesium, wt. % | ASTM D5185 | 0.038 |
| Boron, wt. % | ASTM D5185 | 0.007 |
| Molybdenum, wt. % | ASTM D5185 | 0.004 |
| Sulfated Ash, wt. % | ASTM D874 | 0.712 |
| Nitrogen, wt. % | ASTM D4629 | 0.081 |
| Pumping Viscosity at (°C), cP | ASTM D4684 | 21,300 (-30) |
| Shear Stability, Final Viscosity in cSt | ASTM D6278 | 9.32 |
| Foam Seq. I (Tendency/Stability), mL | ASTM D892 (Opt. A) | 0/0 |
| Foam Seq. II (Tendency/Stability), mL | ASTM D892 (Opt. A) | 0/0 |
| Foam Seq. III (Tendency/Stability), mL | ASTM D892 (Opt. A) | 0/0 |
| High Temperature Foaming, static foam | ASTM D6082 (Opt A) | 20/0 |
| TBN, mgKOH/g | ASTM D2896 | 7 |

Claims Information

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|--------------------------------|-----------------|
| API SJ, SH, SG, SF, SE, SD, SC | Recommended For |
| API SL | Recommended For |
| API SM | Recommended For |
| API SN | Recommended For |
| API SN PLUS | Recommended For |
| API SP | Approved |
| Chrysler MS-6395 | Recommended For |
| GM 4718M | Recommended For |
| GM 6094M | Recommended For |
| ILSAC GF-4, GF-3, GF-2, GF-1 | Recommended For |
| ILSAC GF-5 | Recommended For |
| ILSAC GF-6A | Approved |