

CRUISER ADVANCE MAX

Ultra high performance heavy duty diesel engine oil

Description

CRUISER ADVANCE MAX is an ultra high performance diesel engine oil which formulated with special additives to provide outstanding performance for serving modern diesel engine which require superior soot and deposit control, wear protection, and high thermal, and oxidation stability.

Application

- ▶ Recommended for naturally aspirated and turbocharged diesel engine from Japanese, European, and American manufacturer
- ▶ For both on-highway (high speed/high load) and off-highway application

Specification Meets

- ▶ API CI-4 PLUS, API CI-4, CH-4, CG-4, CF, API SL/SJ,
- ▶ ACEA E7-04, E2-96
- ▶ CAT ECF-1A, CAT ECF-2
- ▶ Cummins 20071, 20072, 20076, 20077, 20078
- ▶ MAN 3275
- ▶ MB 228.3
- ▶ MTU Type 2
- ▶ Volvo VDS-3
- ▶ DDC 93K214
- ▶ Global DHD-1

Advantages

- ▶ Excellent thermal, nitration and oxidation resistance
- ▶ Good anti-rust, wear protection and anti-corrosion with a limited ash level
- ▶ Low ash content prevents deposits formation in the combustion chamber

Typical Data of CRUISER ADVANCE MAX

| Characteristics | Unit | CRUISER ADVANCE MAX | Test Method |
|------------------------------|----------|---------------------|-------------|
| | | 15W-40 | |
| Color | | L 5.0 | ASTM D 1500 |
| Density @ 15 °C | kg/L | 0.8676 | ASTM D 4052 |
| Kinematic Viscosity @ 40 °C | cSt | 108.0 | ASTM D 445 |
| Kinematic Viscosity @ 100 °C | | 15.07 | |
| Viscosity Index | | 146 | ASTM D 2270 |
| Flash Point (COC) | °C | 234 | ASTM D 92 |
| Pour Point | °C | -24 | ASTM D 97 |
| Sulfated Ash Content | %wt | 1.37 | ASTM D 874 |
| Total Base Number | mg KOH/g | 11.8 | ASTM D 5293 |
| CCS Viscosity @ -20 °C | cP | 5242 | ASTM D 2896 |

* the typical characteristic mentioned represent mean values