

PREMIUM MULTIGRADE 15W40

Diesel Engine

TECHNICAL DATA SHEET

Product Description

ALES PREMIUM MULTIGRADE 15W40 is a high-performance diesel engine oil formulated with a highly refined semi-synthetic base stock and advanced technology additives to provide reliable performance in the latest emission designs, including those with EGR systems, as well as satisfying the needs of older engines. It may be used in naturally aspirated and turbocharged diesel and petrol engines, providing excellent protection even under the most strenuous conditions.

Features & Benefits

- Outstanding oxidation & thermal stability reduces sludge deposits and keeps the engine cleaner.
- Excellent engine protection by providing outstanding protection against wear.
- Improved fuel economy.
- Excellent dispersancy provides outstanding soot control in Exhaust Gas Recirculation (EGR) systems.
- Extended TBN reserves provide improved acid neutralization and corrosion protection, which helps in extending oil drain intervals.

Specifications

ALES PREMIUM MULTIGRADE 15W40 meets or exceeds following International and Builder specifications:

- API CI-4, CH-4, CG-4, CF-4, CF, SL, SJ
- ACEA E7/A3/B4
- CAT ECF-1a, ECF-2/ VOLVO VDS-3
- MTU OIL Category 2
- MAN M3275/MACK EO-M PLUS
- Detroit Diesel 93K215
- CUMMINS CES 20076/7/20078
- Deutz DQC -III-05/ MACK EO-N
- Global DHD-1/ Renault VI RLD-2
- MB 228.3/MB 229.1

Application

ALES PREMIUM MULTIGRADE 15W40 is suitable for use in following:

- Suitable for Heavy duty manual transmissions, axles and final drives requiring API GL-4 level performance.
- Applications like Off-highway industries including construction, mining, quarrying, and agriculture.

Typical Characteristics

| ALES PREMIUM MULTIGRADE 15W40 | Test Method | Units | 15W-40 |
|----------------------------------|-------------|----------|---------------|
| Density @ 15 °C | ASTM D 4052 | gm/cc | 0.884 |
| Viscosity @ 100 °C | ASTM D 445 | cSt | 15.2 |
| Viscosity @ 40 °C | ASTM D 445 | cSt | 112 |
| Viscosity Index | ASTM D 2270 | - | 142 |
| Pour Point | ASTM D 97 | °C | -30 |
| Flash Point (COC) | ASTM D 92 | °C | 230 |
| Total Base Number | ASTM D 2896 | mg KOH/g | 11.3 |
| Sulfated Ash | ASTM D 874 | % wt | 1.2 |
| CCS Viscosity | ASTM D 5293 | cP | 6000 @ -20 °C |

The above figures are typical of blends with normal production tolerance and do not constitute a specification.