

OIL TECH

The Lubrication Specialists

TECHNICAL DATA SHEET

SUPER UNIVERSAL 15W/40

PRODUCT DESCRIPTION

SUPER UNIVERSAL 15W/40 is an engine oil designed for the harsh conditions of Australia using the latest synthetic technology. It also meets the latest Diesel Particulate Filter (DPF), Diesel Oxidation Catalyst (DOC), Selection Catalytic Reduction (SCR) and Nitrogen Dioxide (Nox) requirements. In addition Euro 1, 2, 3, 4 & 5 emission requirements are met.

APPLICATION

SUPER UNIVERSAL is a proven choice with the transportation industry, suitable for European, American and Japanese diesel engine operating under the most arduous conditions in both on and off highway applications. It minimises high temperature carbon deposits, which is by far the most concerned issue for today's heavily loaded modern diesel engines. The reduced carbon build-up means less ring wear and cylinder bore polishing resulting in much reduced diesel consumption, less ring breakage and piston skirt scuffing. Its high ability to neutralise acidic by-products from the diesel combustion ensures minimum corrosion of the engine components throughout the lengthy oil drain interval.

PERFORMANCE

- Minimises oil consumption.
- Protects against ring and cylinder wear.
- Keeps pistons clean.
- Neutralises acid from high sulphur fuel.
- Maintains efficient fuel consumption.
- Meets performance levels required for the new generation of cooled EGR engines.
- Superior soot handling compared to CH4 lubricants. •

PERFORMANCE CHARACTERISTICS

API CI-4/SL

ACEA 04 E7/E2/B4/B3/A3

ACEA 98 B3, 96 E2/A2

CCMC-D4-PD2/G-4

Mack EO-M PLUS, EO-N

SUPER UNIVERSAL 15W/40

ACEA 08 E7

ACEA 02 E5/E3/E2/B4/B3/B2/A3/A2

EURO I, II, III, IV, V

CAT ECF-1

MAN 271, M3275

PERFORMANCE CHARACTERISTICS

| | |
|-------------------------------------------------|----------------|
| MERCEDES BENZ 228.3/229.1 | VOLVO VDS-3 |
| Cummins CES 20071 / 20072 / 20076 / 20077/20078 | |
| DTC/MTU Type 2 | RVI RLD-2 |
| ZF TE-ML 07C | Renault VI-RD |
| Allison C4 | MTU-DDC type 2 |
| Global DHD-1 | |

TYPICAL INSPECTION

| Properties | Unit | Value |
|----------------------------------|-------------|--------|
| SAE Viscosity Grade | SAE J300 | 15W/40 |
| Specific Gravity@ 15°C | ASTM D4052 | 0.886 |
| Flash Point °C | ASTM D92 | 214 |
| Pour Point °C | ASTM D97 | -24 |
| Kinematic Viscosity @ 40°C (cst) | ASTM D445 | 109.6 |
| @ 100°C (cst) | ASTM D445 | 14.9 |
| Viscosity Index | ASTM D 2270 | 141 |
| TBN (mg KOH/g) | ASTM D2896 | 12 |
| Colour | ASTM D1500 | <4 |