

## LUBRICANTS FOR AUTOMOTION. HEAVY DIESEL

### TRACTION SAE

#### DESCRIPTION

Monograde mineral oil specially designed for diesel engines of commercial vehicles (trucks, PW and agriculture) and gasoline engines that require an oil of this viscosity and quality.

#### PRODUCT APPLICATIONS

- Intended for Public Works fleets and machinery that require frequent oil changes due to their high level of environmental pollution.
- Suitable for normal aspirated diesel engines, tractors, quarry machinery and stationary motors.

#### PRODUCT PERFORMANCE

- Optimised product in terms of quality/cost ratio for high-mileage fleets.
- Effective control of deposits and wear with high sulphur diesel oils ( $\geq 0.5\%$ ).
- High detergent-dispersing strength. Keeps engine parts clean.
- For indirect injection diesel engines.
- Excellent oxidation stability.
- High corrosion protection.
- High foam formation resistance.

#### SPECIFICATIONS

- API CF/SF
- CCMC D2
- CATERPILLAR TO-2
- ALLISON C3

#### TYPICAL CHARACTERISTICS

| CHARACTERISTIC     | UNITS    | METHOD      | TRACTION SAE |           |           |
|--------------------|----------|-------------|--------------|-----------|-----------|
|                    |          |             | 30           | 40        | 50        |
| <b>SAE Grade</b>   | -        | -           | <b>30</b>    | <b>40</b> | <b>50</b> |
| Density at 15°C    | g/ml     | ASTM D 4052 | 0.895        | 0.898     | 0.904     |
| Viscosity at 100°C | cSt      | ASTM D 445  | 11.87        | 14.51     | 19.38     |
| Viscosity at 40° C | cSt      | ASTM D 445  | 108.3        | 148       | 227       |
| Viscosity index    | -        | ASTM D 2270 | 98           | 97        | 97        |
| Freezing point     | °C       | ASTM D 97   | -18          | -15       | -12       |
| Flash point, V/A   | °C       | ASTM D 92   | >230         | >250      | >250      |
| Base number, TBN   | mg KOH/g | ASTM D 2896 | 8.2          | 8.2       | 8.2       |
| Sulphated ash      | % (m/m)  | ASTM D 874  | 0.8          | 0.8       | 0.8       |

#### HEALTH & SAFETY AND ENVIRONMENT

A Safety Data Sheet providing information on product hazards, handling precautions, first aid measures, and relevant environmental data is available for this product as per applicable legislation.