

LONG LIFE

Semi-synthetic 10W-40 CI-4

PRODUCT DESCRIPTION



High quality semi synthetic engine oil for high output four cycle diesel engines of trucks, construction and special purpose vehicles, operating in conditions of very high loads with extended service intervals.

The product is manufactured using a blend of superior quality mineral and synthetic (PAO) base stocks with outstanding stability and high viscosity index.

Due to excellent detergent and dispersion performance TOTACHI LONG LIFE 10W-40 maintains optimal engine cleanliness and minimizes wear of loaded parts. The product effectively protects engine against varnish, burnout and low temperature deposits.

APPLICATION

- TOTACHI LONG LIFE 10W-40 is recommended for passenger cars as well as commercial, off road and special purpose vehicles, operating in severe conditions with extremely high loads, when oil does not have sufficient time to cool.
- TOTACHI LONG LIFE 10W-40 is the perfect choice for high output engines, equipped with typical systems of performance increase, such as exhaust gas recirculation system (EGR), multivalve train, supercharge systems with intercooling.

CUSTOMER BENEFITS

- The balanced formulation of the product offers excellent antioxidizing properties and stability that provide possibility to operate applications with the increased service intervals.
- A thoroughly balanced protective additives package reduces wear of parts, including camshaft, operating under boundary lubrication, which generally contributes to extending engine durability.
- The high viscosity index and excellent low temperature pumpability provide all-weather operation of applications in various climate conditions, including regions with low ambient temperatures.

MEETS SPECIFICATIONS AND REQUIREMENTS OF:

- API CI-4, CH-4;
- ACEA E7, E5;
- JASO DH-1;
- Cummins CES 20078, 20077, 20076.

Before using this product make sure, it is consistent with OEM's recommendations for the equipment operating conditions and customer's maintenance practices.

TYPICAL TEST DATA

| CHARACTERISTICS | UNITS | VALUES | ASTM |
|---------------------------------|----------|--------|------------|
| SAE Grade | | 10W-40 | |
| Kinematic viscosity at: | | | |
| 40 °C | cSt | 107,4 | ASTM 445 |
| 100 °C | cSt | 15,29 | ASTM 445 |
| Flash point | °C | 222 | ASTM D92 |
| Pour point | °C | -39 | ASTM D97 |
| Density at 30 °C | Kg/l | 0,8739 | ASTM D4052 |
| Dynamic viscosity at -25°C, CCS | cPs | 6909 | ASTM D5293 |
| Total Base Number, TBN | mg KOH/g | 12,9 | ASTM D2896 |
| Viscosity index | | 149 | ASTM D2270 |
| Color | | L2,5 | ASTM D1500 |

STORAGE AND HANDLING GUIDELINES

- Avoid exposing products to direct sunlight.
- Cans, packed in cardboard boxes, must be stored in dry places. Avoid exposing products to moisture.
- It is highly recommended to store drums indoors on pallets and racks.
- If stored outdoors drums should be placed sidewise to avoid accumulation of moisture.

HEALTH, SAFETY AND ENVIRONMENT PROTECTION

Information on health, safety and environment protection is described in the product Safety Data Sheet (SDS). The SDS file contains details on potential

hazards, precautions and first aid measures, as well as information on environmental impact and disposal of used products.

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