

# Eiffel Marvela Titanium CI-4

Extra High Performance Multigrade Diesel Engine Oil



## Product Data Sheet

### Product Description & Application

Eiffel Marvela Titanium CI-4 is extra high performance diesel engine oil formulated with highly refined base stocks and advanced technology additives to provide reliable engine performance in the latest emission designs, including those with Exhaust Gas Recirculation (EGR) systems and after treatment systems with Diesel Particulate Filters (DPF) and Diesel Oxidation Catalyst (DOC), as well as satisfying the needs of older engines. It may be used in naturally aspirated and turbocharged diesel & petrol engines and On & Off highway applications, 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 corrosive & abrasive wear.
- Improved shear stability maintains viscosity in-grade under severe, high temperature service conditions.
- Excellent low temperature pumpability ensures improved fuel economy.
- Excellent dispersancy provides outstanding soot control in Exhaust Gas Recirculation (EGR) systems.
- Excellent TBN reserves provide improved acid neutralization and corrosion protection, which helps in extending oil drain interval in both new & old engines using either low (500 ppm) or ultra-low (15 ppm) sulfur diesel fuel.

### Specifications

**Eiffel Marvela Ultimate meets or exceeds following International and Builder specifications:**

- CI-4, CH-4, CF, CF-2, SM, SL
- ACEA E7
- MTU OIL Category 2.1
- Mack EO-M Plus
- Detroit 7SE 270 (4-STROKE CYCLE)
- CUMMINS CES 20071
- Cummins CES 20072
- CAT ECF-2
- MB 228.3
- VOLVO VDS-2

### Typical Characteristics

Eiffel Marvela Titanium	Test Method	Units	10W-30	10W-40
Density @ 15 °C	ASTM D 4052	gm/cc	0.868	0.875
Viscosity @ 100 °C	ASTM D 445	cSt	10.4	14.4
Viscosity @ 40 °C	ASTM D 445	cSt	62.6	96
Viscosity Index	ASTM D 2270	-	155	155
Pour Point	ASTM D 97	°C	-36	-36
Flash Point (COC)	ASTM D 92	°C	215	236
Total Base Number	ASTM D 2896	mg KOH/g	11.4	11.4
Sulfated Ash	ASTM D 874	% wt	1.0	1.0
CCS Viscosity	ASTM D 5293	cP	6050 @ -25 °C	6200 @ -25 °C

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