

# KOYOTO 20W-40 CI-4/SL SERIES

High Performance Multigrade Diesel & Gasoline Engine Oil



## Product Data Sheet

### Product Description

KOYOTO 20W-40 CI-4/SL series is high performance diesel engine oil formulated with highly refined base stocks 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

**KOYOTO 20W-40 CI-4/SL series 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
- MTU OIL Category 2
- MAN M3275
- VOLVO VDS-3
- Renault VI RLD-2
- Detroit Diesel 93K215
- CUMMINS CES 20076/7/20078
- Deutz DQC-III-05
- Global DHD-1
- MB 228.3/MB 229.1
- MACK EO-N

### Typical Characteristics

KOYOTO CI-4/SL	Test Method	Units	20W-40	20W-50
Density @ 15 °C	ASTM D 4052	gm/cc	0.888	0.890
Viscosity @ 100 °C	ASTM D 445	cSt	14.30	21.4
Viscosity @ 40 °C	ASTM D 445	cSt	107	182
Viscosity Index	ASTM D 2270	-	137	137
Pour Point	ASTM D 97	°C	-30	-30
Flash Point (COC)	ASTM D 92	°C	230	236
Total Base Number	ASTM D 2896	mg KOH/g	11.5	11.5
Sulfated Ash	ASTM D 874	% wt	1.2	1.2
CCS Viscosity	ASTM D 5293	cP	6020 @ -15 °C	6060 @ -15 °C

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