

# KOYOTO 5W-40 CJ-4/SN SERIES

Fully Synthetic-High Performance Multigrade Diesel Engine Oil



## Product Data Sheet

### Product Description

KOYOTO 5W-40 CJ-4/SN SERIES uses fully synthetic technology base oils and balanced additive system to deliver fuel economy performance, and to protect modern engines operating under extreme conditions of pressures and temperatures. It provides 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 fuel economy, due to its superior flow and frictional properties compared to conventional diesel engine oils.
- 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.
- It delivers excellent viscosity control, outstanding protection against wear and exceptional versatility featuring one oil for all fleet with multiple engine makes.

### Specifications

**KOYOTO 5W-40 CJ-4/SN SERIES series meets or exceeds following International and Builder specifications:**

- API CJ-4, CI-4 Plus, CI-4, CH-4, CF, CF-2, SN, SM, SL
- ACEA E9/E7
- MTU OIL Category 2.1
- MACK EO-O Premium Plus
- Detroit Diesel Power Guard 93K218
- CUMMINS CES 20081/77/76
- CAT ECF-3
- MB 228.31
- VOLVO VDS-4
- MAN M3575
- Duetz DQC-III-10 LA
- Renault VI RLD-3

### Typical Characteristics

KOYOTO CJ-4/SN	Test Method	Units	5W-30	5W-40
Density @ 15 °C	ASTM D 4052	gm/cc	0.848	0.850
Viscosity @ 100 °C	ASTM D 445	cSt	10.4	14.30
Viscosity @ 40 °C	ASTM D 445	cSt	58.65	88.6
Viscosity Index	ASTM D 2270	-	169	168
Pour Point	ASTM D 97	°C	-39	-39
Flash Point (COC)	ASTM D 92	°C	215	228
Total Base Number	ASTM D 2896	mg KOH/g	10.0	10.0
Sulfated Ash	ASTM D 874	% wt	1.0	1.0
CCS Viscosity	ASTM D 5293	cP	4560 @ -30 °C	4650 @ -30 °C

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