



## Product Data Sheet

# Synthetic Super DEO 0W-40 CJ-4

## Full Synthetic Heavy Duty Diesel Engine Oil

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### Description

Nemco's Synthetic Super DEO 0W-40 CJ-4 Full Synthetic Engine Oil is engineered for 2007 model year and newer diesel engines with advance emission control systems. These systems use exhaust gas recirculation, diesel particulate filters and catalyst that are all sensitive to the wrong oil. The high TBN and outstanding TBN retention will give excellent oxidation control and will provide excellent engine protection in severe service conditions for both new and old engines.

Synthetic Super DEO 0W-40 is formulated with high quality, high viscosity index synthetic base stocks, and a proven additive system with the proper balance of metallic detergents and dispersants, multipurpose inhibitors and a shear stable viscosity index improver. Synthetic Super DEO 0W-40 has been proven to protect diesel particle filter (DPF) emission systems against ash and particle build up. In addition it provides, improved engine protection from soot, deposits, varnish, wear, acids, viscosity shear loss, and oil consumption.

### Features & Benefits

- 🔥 Excellent TBN retention to neutralize deposits, soot, and acids during the course of a drain interval
- 🔥 Protects DPF (diesel particle filter) against ash and particle build up
- 🔥 Prevents wear by providing stable viscosity at high temperature / high load conditions
- 🔥 Wide temperature range performance and enhanced fuel economy
- 🔥 Excellent cold flow properties ensure faster lubrication during cold starts; maxims engine life
- 🔥 Exceptional soot and deposit control reducing engine wear and extending engine life

### Applications

- Four-stroke naturally aspirated and turbocharged diesel engines
- Using ultra low or low sulphur diesel fuel
- When the manufacturer recommends the use of 0W-40 diesel engine oils
- All Tier IV and newer low-emission engines with exhaust after treatment devices
- All Pre-Tier IV engines specifying an older API or OEM oil performance category

### Meets and/or exceeds

- |  |                               |
|--|-------------------------------|
| • API suitable for use service CJ-4, CI-4 Plus, CI-4, CH-4, CG-4 | • Caterpillar ECF-3, ECF-2    |
| • Mack EO-O PP 07', EO-N PP 03, EO-M Plus, EO-M                  | • Detroit Diesel 93K218/15/14 |
| • Volvo VDS-4, VDS-3   | • Mercedes Benz 228.31        |
| • Cummins 20081  | • Global DHD-1                |
|  | • ACEA E9/E7                  |
|  | • JASO DH-2                   |

**Typical physical characteristics – Full Synthetic Heavy Duty Diesel Engine Oils**

Properties	Method	0W-40	5W-40
API Service Category	-	Suitable for use CJ-4, CI-4 Plus, CI-4, CH-4/SM	CK-4, CJ-4, CI-4 Plus, CI-4, CH-4/SN
Oil Type	-	Full Synthetic	
Kinematic Viscosity @40°C mm <sup>2</sup> /s	ASTM D445	87.3	94.3
Kinematic Viscosity @100°C mm <sup>2</sup> /s	ASTM D445	15.1	15.2
Viscosity Index	ASTM D2270	184	170
CCS Viscosity @°C	ASTM D5293	5,400@-35	5,930@-30
Sulphated Ash, % wt.	ASTM D874	<1.0	1.1
Total Base Number mg KOH/g	ASTM D2896	10	11
Flash Point (CC), °C (°F)	ASTM D92	n/a	n/a
Pour Point °C (°F)	ASTM D97	-54 (-65)	-45 (-49)
MRV-TP1, Viscosity, cP@°C	ASTM D4684	20,000@-40	32,800@-35

These characteristics are typical of current production, variations in these characteristics may occur.

**Availability and product codes**

Pack size	4x4L case	20L pail	205L drum	Bulk
Synthetic DEO 0W-40*	DMOSZ0005	DMOSZ0016	DMOSZ0030	DMOSZ0042
Synthetic DEO 5W-40	DMOSZ0008	DMOSZ0018	DMOSZ0033	DMOSZ0049
Availability	Year round			

*This product \*\*is not suitable for use where API Service CK-4 is required.*

**Use and Storage**

To get the best performance from your equipment ensure products meet or exceed manufacturing requirements. Lubricants typically have a shelf life of 5 years under ideal storage conditions. Keep drums and totes in good condition and away from moisture. Keep bungs securely in place; as bungs breath, moisture can seep in over time. Where possible, avoid storage in areas where the temperature fluctuates between extreme highs and lows.

**Health, Safety, & Environment**

GHS compliant Safety Data Sheets are available at [nemco.ca](http://nemco.ca) under 'Safety Data Sheets'. For SDS in French, please contact [info@nemco.ca](mailto:info@nemco.ca). This material is WHMIS 2015 Classified. The SDS contains valuable information critical to the safe handling and proper use of the product. Always take used oil to an authorized collection point. Avoid discharge into drains, soil, or water. As with any lubricant, keep out of reach of children and animals.

**Quality**

Nemco works with respected industry suppliers and is an active member of ILMA. Nemco Resources Limited manufacturing facility in Winnipeg, Manitoba is proud to be certified to ISO 9001. For questions regarding quality, please contact our Technical Sales representatives.