



Product Data Sheet

Synthetic Super DEO 5W-40 CK-4 Full Synthetic Heavy Duty Diesel Engine Oil

Description

Nemco's Synthetic Super DEO 5W-40 CK-4 is an advanced full synthetic diesel engine oil. This premium heavy duty diesel engine oil is engineered for optimal fuel economy, wide temperature range performance, and superior protection of all Tier IV and newer model year low-emission engines and exhaust after treatment systems. This product is backward-compatible providing additional protection for older engines.

Industry-leading anti-oxidant performance and aeration protection gives this synthetic 5W-40 engine oil the highest level of field tested durability for longer engine life in fleet, construction, and agriculture equipment under severe service and extreme temperature conditions.

Features & Benefits

- 🔥 Proven improved fuel economy (up to 1.2%) compared to 15W-40 engine oil
- 🔥 Excellent TBN retention to neutralize deposits, soot, and acids during the course of a drain interval
- 🔥 Advanced oxidation protection and enhanced shear stability
- 🔥 Protects DPF (diesel particle filter) against ash build up
- 🔥 Reduces wear during cold temperature start up; exceeds 5W-40 pumpability requirements
- 🔥 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 5W-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 or exceeds the following specification standards and performance requirements:

5W-40 CK-4, CJ-4, CI-4/SN CI-4 Plus

API Service, meets or exceeds OEM service requirements:

Mack EOS-4.5, EO-O Premium Plus, EO-N	Daimler Mercedes Benz 228.31
Volvo VDS-4.5, VDS-4, VDS-3	ACEA E-92012, E7
Cummins CES 20086, 20081	MAN M-3575
Caterpillar ECF-3, ECF-2	MTU Category 2.1
Detroit Diesel DFS 93K222, 93K218	Renault RLD-4, RLD-3
Chrysler (FAC) MS-10902, recommended for use in EcoDiesel engines	

Typical physical characteristics – Synthetic Super DEO 0W-40 and 5W-40

Properties	Method	0W-40	5W-40
API Service Category	-	CJ-4/SM	CK-4/SN
Suitable for Use	-	CI-4, CI-4 Plus, CH-4	CJ-4, CI-4, CI-4 Plus
Kinematic Viscosity @40°C mm ² /s	ASTM D445	87.27	94.3
Kinematic Viscosity @100°C mm ² /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
Pour Point °C	ASTM D97	-54	-45
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
0W-40 API CJ-4*	DMOSZ0005	DMOSZ0016	DMOSZ0030	DMOSZ0042
5W-40 API CK-4	DMOSZ0008	DMOSZ0018	DMOSZ0033	DMOSZ0049
Availability	Year round			

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

Use and Storage

Always check your vehicle manufacturer's specifications for lubricant use. Lubricants typically have a shelf life of 5 years under ideal storage conditions; keep packages closed while not in use, store in a cool and dry area.

Health, Safety, & Environment

GHS compliant Safety Data Sheets are available at nemco.ca under the Safety Data Sheets. For SDS in French, please contact 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 for base oils, lubricant additives, and finished lube products. Nemco Resources Limited manufacturing facility in Winnipeg, Manitoba is proud to be certified to ISO 9001. For questions regarding quality, please contact your local sales representative.