



Product Data Sheet

Super DEO 15W-40 and 10W-30 Premium Heavy Duty Diesel Engine Oil

Description

Nemco Super DEO 15W-40 and 10W-30 are API CK-4 approved engine oils developed for use in four-stroke cycle diesel engines that meet 2017 model year on-highway and Tier 4 non-road exhaust emission standards, as well as for previous model year engines. These oils are especially formulated to protect and sustain engine exhaust after-treatment devices such as diesel particulate filters (DPFs), diesel oxidation catalysts (DOCs) and selective catalytic reduction (SCR) systems.

Super DEO 15W-40 and 10W-30 are backward serviceable for use in pre-2017 diesel engines, and may be used in older equipment that called for earlier API oil categories such as CJ-4, CI-4 with CI-4 Plus, CI-4 and CH-4. These oils are designed for use in mixed fleets with both on-highway and off-road equipment operating in varying climates and under varying loads and service conditions. They have excellent soot dispersancy to protect against soot-induced oil thickening and abrasive wear, and excellent oxidation resistance to help minimize deposit formation. The low-ash formulation is designed for compatibility with all exhaust emission control systems in modern diesel engines, and to help prolong DPF life.

Advantages

- Improved oxidative stability for longer service life
- Excellent resistance to viscosity loss due to shear and oil aeration
- Protection against catalyst poisoning, particulate filter blocking, engine wear, piston deposits
- Protection for newer low-emission diesel engines and older diesel engines
- Specially formulated to protect exhaust after-treatment devices
- Excellent soot control for protection against abrasive wear and soot-induced oil thickening
- Protection against sludge, varnish formation, rust, bearing corrosion and wear
- Good resistance to foaming and aeration

Applications

On-highway diesel trucks equipped with EGR and exhaust after-treatment devices to meet 2017 emissions standards, older diesel equipment with conventional, non-EGR engines or ACERT engines, and off-highway construction, earth moving and mining equipment.

Meets and/or exceeds

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| <ul style="list-style-type: none"> • Approved and licensed for API Service CK-4, CJ-4, CI-4 with CI-4 PLUS, CI-4, CH-4, CH-4/SN* • ACEA E7-08*/E9-08 • Allison C-4/3* • Caterpillar ECF-3, ECF-2 • Cummins CES 20086, 81, 71, 72*, 76*, 77*, 78 • Daimler Mercedes-Benz 228.3* • Detroit Diesel 93K222, 93K218, 7SE270 • Global DHD-1* | <ul style="list-style-type: none"> • International (Navistar) diesel engines • JASO DH-2 • MIL-L-2104E/F • Mack EOS-4.5, EO-O Premium Plus, EO-N Premium Plus, EO-N Plus • MTU Type 2.1 • Volvo VDS-4.5, VDS-4/3 • Diesel engines manufactured by OEMs not listed above, where OEM specifies API CK-4 engine oil |
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- *SAE 15W-40 Viscosity Grade



Product Data Sheet

Typical physical characteristics

Properties	Method	Super DEO 15W-40	Super DEO 10W-30
SAE Viscosity Grade		15W-40	10W-30
Kinematic Viscosity @40°C mm ² /s	ASTM D445	120	81
Kinematic Viscosity @100°C mm ² /s	ASTM D445	15.5	12.0
Viscosity Index	ASTM D2270	135	142
CCS Viscosity @ -25°C	ASTM D5293	6,500	6,300
Density @20°C kg/l		.871	.865
Sulphated Ash %	ASTM D874	.99	.99
Total Base Number mg KOH/g	ASTM D2896	10	10
Flash Point (CC) °C	ASTM D92	>205	>205
Pour Point °C	ASTM D97	-39	-42
MRV-TP1, Viscosity, cP @ -30°C	ASTM D4684	23,100	21,800

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

Health, Safety, & Environment

GHS compliant Safety Data Sheets are available at nemco.ca under the MSDS Library. For SDS in French, please contact info@nemco.ca. While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), 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. Do not discharge into drains, soil, or water.