



## Product Data Sheet

# Super DEO and Super Blue 15W-40 CK-4 Premium Heavy Duty Diesel Engine Oil

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### Description

Nemco's Super DEO 15W-40 and Super Blue 15W-40 Heavy Duty Diesel Engine Oils are conventional engine oils for use in high-speed four-stroke cycle diesel engines designed to meet 2017 model year on-highway and Tier 4 non-road exhaust emission standards as well as for previous model year diesel engines. These API CK-4 oils are intended for use in mixed fleets with both on-highway and off-road equipment operating in varying climates and under varying loads and service conditions.

Nemco's Heavy Duty SAE 15W-40 Diesel Engine Oils have been proven to protect diesel particle filter (DPF) emission systems against ash and particle build up. In addition they provide improved engine protection from oxidation, soot, deposits, varnish, wear, acids, viscosity shear loss, and oil consumption. They are backward serviceable and may be used in equipment that called for earlier API oil categories CJ-4, CI-4 with CI-4 Plus, CI-4 and CH-4.

### 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 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:

- Approved and licensed for API Service CK-4, CJ-4, CI-4 with CI-4 PLUS, CI-4, CH-4
- 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
- JASO DH-2
- MIL-L-2104E/F
- Mack EOS-4.5, EO-O Premium Plus, EO-N Premium Plus, EO-N Plus
- Volvo VDS-4.5, VDS-4/3
- Diesel engines manufactured by OEMs not listed above, where OEM specifies API CK-4 engine oil

## Typical physical characteristics – Heavy Duty Diesel Engine Oil 15W-40

Properties	Method	Super DEO 15W-40	Super Blue 15W-40
API Service Categories		CK-4, CJ-4, CI-4, CI-4 Plus, CH-4	
Oil Type	-	Conventional	
Colour	Appearance	Amber	Blue
Kinematic Viscosity @40°C mm <sup>2</sup> /s	ASTM D445	120	
Kinematic Viscosity @100°C mm <sup>2</sup> /s	ASTM D445	15.5	
Viscosity Index	ASTM D2270	135	
CCS Viscosity @°C	ASTM D5293	6,500@ -25	
Sulphated Ash, % wt.	ASTM D874	n/a	
Total Base Number mg KOH/g	ASTM D2896	10	
Flash Point (CC), °C (°F)	ASTM D92	>205 (>401)	
Pour Point, °C (°F)	ASTM D97	-35 (31)	
MRV-TP1, Viscosity, cP@°C	ASTM D4684	23,100@ -30	

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

## Availability and product codes

Pack size	12x1L case	4x4L case	20L pail	205L drum	1,000 tote/Bulk
Super DEO 15W-40	DMORZ0008	DMORZ0021	DMORZ0047	DMORZ0086	DMORZ0128
Super Blue 15W-40	DMORZ0007	DMORZ0020	DMORZ0001	DMORZ0002	DMORZ0133
Availability	Year round				

## 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, &amp; 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). While this material is not considered hazardous 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.