



## Product Data Sheet

# Synthetic Blend and Super Blue Synthetic Blend 10W-30 Heavy Duty Diesel Engine Oil

### Description

Nemco's Synthetic Blend 10W-30 products 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. This synthetic blend 10W-30 oil is 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.

Synthetic Blend 10W-30 and Super Blue Synthetic Blend 10W-30 oil is 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. This oil is 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. It has 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.

### Meet or exceed the following specification standards and performance requirements:

- Approved and licensed for API Service CK-4, CJ-4, CI-4 with CI-4 PLUS, CI-4, CH-4
- ACEA E9-08
- Caterpillar ECF-3, ECF-2
- Cummins CES 20086, 81, 71, 78
- Detroit Diesel 93K222, 93K218, 7SE270
- 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

## Typical physical characteristics

Properties	Method	Performance	
		Synthetic Blend 10W-30	Super Blue Synthetic Blend 10W-30
SAE Viscosity Grade		10W-30	10W-30
Kinematic Viscosity @40°C mm <sup>2</sup> /s	ASTM D445	81	81
Kinematic Viscosity @100°C mm <sup>2</sup> /s	ASTM D445	12.0	12.0
Viscosity Index	ASTM D2270	142	142
CCS Viscosity cP @ -25°C	ASTM D5293	6,300	6,300
Density @20°C kg/l		.865	.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	-42	-42
MRV-TP1 Viscosity cP@ -30°C	ASTM D4684	21,800	21,800

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
SynBlend 10W-30	DMOSZ0039*	DMOSZ0040*	DMOSZ0041*	DMORZ0126*
Super Blue SynBlend 10W-30	DMORZ0019	DMORZ0046	DMORZ0085	DMORZ0132
Availability	Year round	Year round	Year round	Year round
For products marked with "*", talk to your local sales representative for availability.				

## 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 the MSDS Library. For SDS in French, please contact [info@nemco.ca](mailto: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.

## Quality

Nemco Resources Ltd works with respected industry suppliers for lubricant additives and base oils. Nemco is a member of ILMA and the manufacturing facility in Winnipeg, Manitoba is proud to be certified to ISO9001. For questions regarding quality, please contact your local sales representative.