

### MAGNA HD PLUS 10W-40

#### PRODUCT DESCRIPTION

Magna HD Plus 10W-40 (Fully Synthetic) is an advanced Heavy-Duty CK-4 Diesel Engine Oil specially designed to meet the new proposed category 11 (PC-11) specifications for heavy-duty-vehicles. The new category has been proposed to meet the latest emission reduction systems in Heavy-Duty Diesel Engines. To meet the challenges of diesel engines redesigned to drastically reduce engine emissions, whilst maintaining backward compatibility with older engine designs, the oil meets two separate and distinct subcategories: one that preserves historical heavy-duty oil criteria and one that provides additional fuel efficiency and economy benefits for modern diesel engine technology while maintaining advanced durability. To meet this challenge, Magna HD Plus 10W-40 provides improved engine performance in newer hotter running engines by maintaining increased oxidation stability, shear stability and reduced aeration. Magna HD Plus 10W-40 meets API credentials and is designed to meet the latest original equipment manufacturers (OEMs) performance specifications in appropriate grades and base stocks - including Caterpillar, Cummins, Detroit Diesel, Mack, Renault, Volvo, Mercedes-Benz, MAN, and Ford. Magna HD Plus 10W-40 (Fully Synthetic) also meets the self-certifying requirements of ACEA E9.

#### APPLICATIONS & BENEFITS

- Designed to significantly reduce engine emissions in the latest diesel engines.
- Fully Synthetic formulation better protects engines, minimises oil consumption.
- Satisfies most diesel engine OEM specifications.
- Advanced thermal stability and oxidation resistance in modern high engines operating at high temperatures.
- Backward compatibility with older engines reduces oil inventory costs.
- Reduces fuel consumption thereby reducing Greenhouse Gas emissions.

#### PACK SIZES AVAILABLE

1L - 5L - 20L - 60L - 200L - 1000L IBC

#### SPECIFICATIONS

- |                      |                                |
|----------------------|--------------------------------|
| • ACEA E6, E9        | • MACK EOS-4.5                 |
| • API CK-4           | • MAN 3477                     |
| • CAT ECF-3          | • MB 228.5, 228.51 APPROVED    |
| • CUMMINS CES 20086  | • MTU OIL CATEGORY 3.1/ 2.1    |
| • DETROIT DFS 93K222 | • RENAULT RLD-4                |
| • DEUTZ IV-18 LA     | • SCANIA Low Ash (LDF-4 Level) |
| • JASO DH-2          | • VOLVO VDS 4.5                |

## TYPICAL CHARACTERISTICS

MAGNA HD PLUS 10W-40	UNITS	VALUES
VISCOSITY	cSt @ 40°C	95.8
	cSt @ 100°C	14.5
SPECIFIC GRAVITY	@ 15°C	0.860
VISCOSITY INDEX		157
POUR POINT	°C	-30
FLASH POINT	°C	236
TBN, mg KOH/g		9.8
HTHS, cP		3.7

## ADDITIONAL INFORMATION

Designed for New Zealand Conditions | Manufactured from virgin base stocks. For more technical information please contact Vertex Lubricants NZ Technical Dept. +64 9 640 0004. Sheet updated 3 September 2024.

The information contained in this Product Data Sheet is accurate at the time of printing and is subject to change without prior notice.

\* Vertex is a registered trademark of Vertex Lubricants NZ Ltd.