



# PANTHER EXTRA DIESEL SAE 15W-40

Maximum Performance Multigrade Motor Oil

## Description

PANTHER EXTRA DIESEL SAE 15W-40 is a high-performance motor oil for modern heavily stressed diesel engines inclusive turbo charger. Because of its outstanding additive technology, it also comes up to the most severe requirements of gasoline engines. This makes it being excellent provider for mixed-fleet.

## Benefits

PANTHER EXTRA DIESEL SAE 15W-40 gives following advantages:

- excellent thermal/oxidative stability reduces sludge built-up und deposits.
- allows maximum oil drain intervals by highest TBN-reserve.
- minimizes efficiently bore polishing.
- reduces oil aging, even at high temperatures.
- best seal and elastomer compatibility.
- an all-seasons oil for mixed-fleet.

PANTHER EXTRA DIESEL SAE 15W-40 is especially recommended for fleets operating in severe on and off-highway service applications.

## Specifications / Recommendation

ACEA E7-16

API CI-4 / SL

Caterpillar ECF-1a /ECF-2

Cummins CES 20077 / 20078

DDC 93K215

Global DHD-1

JASO DH-1

Mack EO-M Plus / EO-N

MAN M 3275

MB 228.3

MTU Typ 2.0

Renault RLD1 / RLD2

Volvo VDS-3

Deutz DQC III-10

## Values

| PANTHER EXTRA DIESEL SAE 15W-40 | Unit               | Value | Method       |
|---------------------------------|--------------------|-------|--------------|
| Density at 15°C                 | kg/m <sup>3</sup>  | 865   | DIN 51 757   |
| Density at 40°C                 | mm <sup>2</sup> /s | 98,9  | DIN 51 562   |
| Viscosity at 100°C              | mm <sup>2</sup> /s | 14,4  | DIN 51 562   |
| Viscosity Index                 |                    | 150   | DIN ISO 2909 |
| CCS at -20°C                    | mPa.s              | 6020  | DIN 51 377   |
| Pourpoint                       | °C                 | -36   | DIN ISO 3016 |
| Flashpoint                      | °C                 | 222   | DIN ISO 2592 |
| TBN                             | mg KOH/g           | 10,5  | DIN ISO 3771 |

Specification variations in these characteristics may occur the instructions of manufacturer must be regarded. Further information to be available by MSDS.