

# PRAGOS Z13 LSP

Low SAPS Heavy Duty Diesel HC-Synthetic Multigrade Motor Oil 10W30

## Description:

**PRAGOS Z13 LSP** is a high performance HC-synthetic multigrade diesel engine oil of the latest generation.

It was developed for low- emission engines and excellently supports fuel economy.

Due to the low sulfur, phosphate and ash content and the outstanding oxidation and shear stability, it is used in modern truck engines.

**PRAGOS Z13 LSP** is used as an SHPD oil in engines with and without particle filter and catalytic converter.

**PRAGOS Z13 LSP** meets the current API CK-4 specification and is excellently suited for use in EURO 3, EURO 4, EURO 5 and EURO 6 engines in combination with diesel fuel up to 500 ppm sulfur.

## Characteristics

- Low Saps (Low Ash) technology
- Highest wear protection
- Exceptional ageing and oxidation stability
- Reduces formation of ageing products at high temperatures
- Meets or exceeds the latest exhaust emission requirements
- Excellent detergent- and dispersant characteristics
- Very good shear stability

## Effects

- Suitable for the EURO 3, 4, 5, 6 engine generation with EGR and/or SCR and TIER 4 exhaust system
- Excellent cold-starting performance
- Fuel economy
- Optimal operating reliability
- Reduces wear on catalytic converter and particulate filter
- Absolutely clean engines and particulate filters
- All-year operation
- Suitable for extended oil change intervals

## Usable for

SAE	10W-30
API	CK-4/SN
ACEA	E6/E7/E9
We recommend this product for:	
CATERPILLAR	ECF-3, ECF-2, ECF-1
CUMMINS	CES 20081/86
DETROIT DIESEL	DDC 93K222, 93K218
DEUTZ	DQC IV-10 LA
MACK	EOS-4.5
MAN	M 3477, M 3575, M 3275
MB	228.51
MB	228.31
MTU	Type 3.1
RENAULT VI	RLD-4
VOLVO	VDS-4.5, VDS-4

## Utilization

- Commercial vehicle diesel engines
- Aspirated engines
- with multivalve-technology
- with turbo charging
- with particulate filter
- with EGR technology
- with SCR technology
- with catalyst technology

## Disposal:

- **PRAGOS Z13 LSP** is assigned to category 2 of used oils and thus is free for disposal.

## Miscibility:

- **PRAGOS Z13 LSP** is only miscible with comparable lubrications and well tolerated. However, it is recommended to take only **PRAGOS Z13 LSP** when refilling.

## PRAGOS Z13 LSP

Article No.	Packaging unit	
STL 1090 885	Can	20 L
STL 1090 886	Drum	60 L
STL 1090 888	Drum	200 L
STL 1490 889	PE-Container	1000 L

## Typical characteristics:

Specific weight at 15°C	kg/m <sup>3</sup>	855
Dynamic viscosity at -25°C	mPa.s	-
Viscosity at 40°C	mm <sup>2</sup> /s	80
Viscosity at 100°C	mm <sup>2</sup> /s	12,0
Viscosity index		144
Flash point COC	°C	262
Pourpoint	°C	-36
Sulphate ashes	%	-
Sulphur content	mass. %	-
Phosphorus content	mass. %	-
TBN	mgKOH/g	9,3

