

# PRAGOS S103 LSP

Mid SAPS-HC-Synthetic-Heavy Duty Diesel-Motor Oil 10W30

## Description:

**PRAGOS S103 LSP** is a fuel-saving HC-Synthetic multigrade diesel engine oil of the latest generation. It was specifically designed for heavily loaded commercial vehicle diesel engines with EURO 5 and EURO 6 standard with EGR and/or SCR and TIER 4 exhaust system (DPF). Can also be used in Euro 3 and Euro 4 engines when required by the vehicle manufacturer. To keep the after-treatment systems functional and trouble-free, it requires an engine oil with MID SAPS (Low Ash) use technology. The reduced level of sulphated ash, phosphorus and sulfur is the selection of base oils and specially designed "MID SAPS" guarantees additives.

**PRAGOS S103 LSP** is designed for use in heavily loaded commercial vehicle diesel engines under all operating conditions. Can also be used for 4-stroke gasoline engines. Ideal for mixed fleets.

**PRAGOS S103 LSP** meets the requirements of European and North American vehicle manufacturers.

## Characteristics

- Mid 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 new EURO 5 and EURO 6 engines 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                            | CJ-4/CI-4 Plus/CI-4/SN |
| ACEA                           | E9/E7                  |
| We recommend this product for: |                        |
| CATERPILLAR                    | ECF-1a, ECF-2, ECF-3   |
| CUMMINS                        | CES 20081              |
| DETROIT DIESEL                 | 93K218                 |
| DEUTZ                          | DQC III-10 LA          |
| FORD                           | WSS-W2C171-E           |
| JOHN DEERE                     | JDQ 78X                |
| MACK                           | EO-O Premium Plus      |
| MAN                            | M 3575, 3275           |
| MB                             | 228.31                 |
| MTU                            | Type 2.1               |
| RENAULT VI                     | RLD-3                  |
| VOLVO                          | 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
- Passenger car diesel engines
- with multivalve-technology
- with turbo charging
- with and without particulate filter.
- with catalyst technology
- Passenger car petrol engines
- with multivalve-technology
- with turbo charging
- with catalyst technology

## Disposal:

- **PRAGOS S103 LSP** is assigned to category 2 of used oils and thus is free for disposal.

## Miscibility:

- **PRAGOS S103 LSP** is only miscible with comparable lubrications and well tolerated. However, it is recommended to take only **PRAGOS S103 LSP** when refilling.

## PRAGOS S103 LSP

| Article No.  | Packaging unit |        |
|--------------|----------------|--------|
| STL 1090 975 | Can            | 20 L   |
| STL 1090 976 | Drum           | 60 L   |
| STL 1090 978 | Drum           | 200 L  |
| STL 1490 979 | PE-Container   | 1000 L |

## Typical characteristics:

|                              |                    |      |
|------------------------------|--------------------|------|
| Specific weight at 15°C      | kg/m <sup>3</sup>  | 867  |
| Dynamic viscosity at -25 ° C | mPa.s              | 6200 |
| Viscosity at 40°C            | mm <sup>2</sup> /s | 72   |
| Viscosity at 100°C           | mm <sup>2</sup> /s | 10,8 |
| Viscosity index              |                    | 139  |
| Flash point COC              | °C                 | 232  |
| Pourpoint                    | °C                 | -36  |
| Sulphate ashes               | %                  | 0,95 |
| Sulphur content              | mass. %            | 0,39 |
| Phosphorus content           | mass. %            | 0,12 |
| TBN                          | mgKOH/g            | 9,1  |

