

# CHAMPION OEM SPECIFIC 10W40 S3

This is a semi synthetic lubricant based on carefully selected very high quality base oils. This "long-drain" oil is engineered to provide outstanding lubrication to modern, high performance diesel engines.

## APPLICATIONS

This oil is suitable for Euro IV and Euro V engines. Due to the high ash content, this oil is not suitable for most engines and vehicles equipped with a particulate filter.

## FEATURES

*Emission compatibility: superior emission reduction*

*Total engine protection: outstanding engine cleanliness and durability*

*Cold start: very good fluidity at low temperature*

## SPECIFICATIONS

|                |                      |         |                      |
|----------------|----------------------|---------|----------------------|
| ACEA           | E4                   | MTU     | Oil Category 1       |
| ACEA           | E7                   | MTU     | Oil Category 2       |
| API            | CF-4                 | MTU     | Oil Category 3       |
| API            | CG-4                 | RENAULT | approval RLD-2       |
| API            | CH-4                 | RENAULT | RLD                  |
| API            | CI-4/SL              | RENAULT | RXD                  |
| JASO           | DH-1                 | SCANIA  | approval LDF-3       |
| ALLISON        | C4                   | SCANIA  | LDF-2                |
| CATERPILLAR    | ECF-1a               | VOITH   | Retarder Oil Class A |
| CATERPILLAR    | ECF-2                | VOITH   | Retarder Oil Class B |
| CATERPILLAR    | TO-2                 | VOLVO   | approval VDS-3       |
| CUMMINS        | CES 20072            |         |                      |
| CUMMINS        | CES 20076            |         |                      |
| CUMMINS        | CES 20077            |         |                      |
| CUMMINS        | CES 20078            |         |                      |
| DAF            | EXTENDED DRAIN       |         |                      |
| DETROIT DIESEL | DFS 93K215           |         |                      |
| DEUTZ          | DQC-III-10           |         |                      |
| DEUTZ          | DQC-III-18           |         |                      |
| DTFR           | 13D110               |         |                      |
| DTFR           | 15B110               |         |                      |
| DTFR           | 15B120               |         |                      |
| GLOBAL         | DHD-1                |         |                      |
| IVECO          | 18-1804 Classe T2 E7 |         |                      |
| IVECO          | 18-1804 Classe T3 E4 |         |                      |
| MACK           | approval EO-N        |         |                      |
| MACK           | EO-M PLUS            |         |                      |
| MACK           | EO-N Premium Plus    |         |                      |
| MAN            | M3275-1              |         |                      |
| MAN            | M3277                |         |                      |
| MB             | 229.1                |         |                      |
| MB             | 235.28               |         |                      |

### CHAMPION CHEMICALS NV

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[www.championlubes.com](http://www.championlubes.com)





## TYPICAL CHARACTERISTICS

| Test                         | Method     | Unit     | Average results |
|------------------------------|------------|----------|-----------------|
| Density at 15°C              | ASTM D4052 | g/ml     | 0.870           |
| Kinematic viscosity at 40°C  | ASTM D445  | mm²/s    | 86.3            |
| Kinematic viscosity at 100°C | ASTM D445  | mm²/s    | 13.3            |
| Viscosity index              | ASTM D2270 |          | 155             |
| B.N. (HClO4 method)          | ASTM D2896 | mg KOH/g | 16.1            |
| Pour point                   | ASTM D6892 | °C       | -39             |
| CCS viscosity at -25°C       | ASTM D5293 | mPa.s    | 6700            |
| Sulfated Ash                 | ASTM D874  | Mass %   | 1.9             |
| Flash Point COC              | ASTM D92   | °C       | 220             |

We reserve the right to alter the general characteristics of our products in order to let our customers benefit of the latest technical evolutions.

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