



## ENGINE OILS

# ADDINOL PROFESSIONAL 1540 E8/E11

### PRODUCT DESCRIPTION

**ADDINOL Professional 1540 E8/E11** is a diesel engine oil for the application in turbo diesel engines with high loads in SAE grade 15W-40.

**ADDINOL Professional 1540 E8/E11** is based on selected base oils combined with high-performance additive components and meets the extreme requirements for the modern Euro engine generations, especially for the sensitive Euro V diesel engine generation in combination with a very low sulphur content in diesel fuel. Euro VI applies only to Iveco and Volvo diesel engines.

### APPLICATION

Highly suitable for the lubrication of heavily loaded turbo diesel engines in trucks, construction and agricultural machinery with exhaust aftertreatment systems such as diesel particle filters (DPF) or selective catalytic reduction - Ad Blue (SCR) and exhaust gas recirculation systems (EGR).

### DELIVERY

Delivery preferably in drums and 20 litre canisters.

### SPECIFICATIONS / APPROVALS

Meets and exceeds the international specifications of:

- ACEA E8/E11 (incl. E7, E6/E9)
- API CK-4

Approved according to:

- Caterpillar ECF-3
- Deutz DQC III-18 LA
- Mack EOS-4.5
- MB-Approval 228.31
- Renault VI RLD-3
- Volvo VDS-4.5 (exceeds VDS-4/-3/-2)

Complies with the requirements of:

- Case New Holland CNH MAT 3571/3521
- Caterpillar ECF-2/-1-a
- Cummins CES 20086/81
- DAF (according to OEM in compliance with ACEA E6)
- Detroit Diesel DDC 93K222
- IVECO (according to OEM in compliance with ACEA E6)
- JASO DH-2
- John Deere JDQ 78x/78A\*  
\* max. 500 oh only for fuels with sulphur content <10 ppm
- MAN M 3775/ 3575/ 3275
- MTU-Oil Type 2.1

### CHARACTERISTICS

- Very good corrosion and wear protection
- Reduction of lubricant-related exhaust and particle emissions
- Mid-SAPS Character
- Improved frictional properties
- Wide and universal range of application
- Excellent ageing and shear stability

### ADVANTAGES AND BENEFITS

- Long motor life
- Excellent environmental behaviour due to low exhaust emissions
- Long service life of the exhaust aftertreatment systems
- Excellent engine cleanliness
- Less fuel consumption
- Reduction of oil types (according to OEM specifications)
- Reliable lubrication under all operating conditions over longest oil change intervals





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## SPECIFICATIONS AND TYPICAL PARAMETERS

| Feature         | Test conditions / unit |          | 1540 E8/E11  | Method acc. to   |
|-----------------|------------------------|----------|--|--|
| Appearance      |                        |          | clear, free from contaminations  | visual   |
| Approvals       |                        |          | Caterpillar ECF-3,<br>Deutz DQC III-18 LA,<br>Mack EOS-4.5,<br>MB-Approval 228.31,<br>Renault VI RLD-3,<br>Volvo VDS-4.5 (exceeds VDS-4/-3/-2) | OEM standards  |
| SAE grade       | J 300                  |          | 15W-40   | ASTM   |
| ACEA            |                        |          | E8, E11 (incl. E6, E7, E9)   | Laboratory and<br>engine tests acc. to<br>ASTM and CEC |
| API             |                        |          | CK-4   |  |
| Density         | at 15°C                | kg/m³    | 868  | DIN 51757  |
| Viscosity       | at 100°C               | mm²/s    | 14.6   | ASTM D 7042  |
| Viscosity index |                        |          | 139  | DIN ISO 2909   |
| Base number     |                        | mg KOH/g | 10.3   | ASTM D 2896  |
| Flash point     | COC                    | °C       | 245  | DIN EN ISO 2592  |
| Pour point      |                        | °C       | -38  | ASTM D 7346  |
| Pumpability     |                        | °C       | down to -25  | ASTM D 4684  |

## ADDINOL - The Experts for High-Performance Lubricants

We at ADDINOL develop and produce more than 600 high-performance lubricants of the new generation. Among these are automotive lubricants for highest demands and pioneering developments for industrial applications. Our customers all over the world benefit from the high and stable quality of our ADDINOL high-performance lubricants, our know-how and the individual customer advisory service of our competent experts. Our company has world wide activities. ADDINOL high-performance lubricants are distributed by more than 120 international partners.

The data given in this product sheet represent our current level of knowledge and experience. Due to the various specific application they do, however, not discharge the user from his own examination. The information provided herein may not be used to derive a legally binding warranty of specific properties or the suitability for a certain purpose of application. Detailed security-concerning and toxicological data as well as security instructions for each product can be taken from the corresponding Material Safety Data Sheets (MSDS). High-performance lubricants from ADDINOL are under continuous development. Therefore, ADDINOL Lube Oil GmbH keeps the right to change technical data in this product data sheet without notification. In case of doubt, please do not hesitate to contact our customers' advisory service.