



## ENGINE OILS

# ADDINOL DIESEL LONGLIFE MD 1548

### PRODUCT DESCRIPTION

ADDINOL Diesel Longlife MD 1548 is a Heavy Duty Engine Oil (HDEO) with excellent SHPD level in the SAE-grade 15W-40.

This product meets the high and complex requirements of lubricating technology for trucks, heavy commercial vehicles in construction industry, agriculture and forestry as well as buses and other special applications in Europe and America.

### APPLICATION

- Perfect combination for the new Heavy-Duty-Engine-Oil market
- Excellent suitability in trucks, heavy commercial vehicles in construction industry, agriculture and forestry as well as buses
- Excellent suitability for RME-operations (bio diesel). Consider the reduction of oil change intervals as formulated in the new regulations of the vehicle manufacturers

### DELIVERY

Delivery preferably in tank cars, drums, 20L cans and small packaging.

### SPECIFICATIONS / APPROVALS

Meets and exceeds the international specifications of:

- ACEA E7
- API CI-4 Plus/SL
- Global DHD 1

Approved according to:

- MB-Approval 228.3
- MAN M 3275-1
- Volvo VDS-3
- Renault RLD-2
- MACK EO-N
- MTU oil category 2
- Deutz DQC III-10
- Cummins CES 20076/77/78

Complies with the requirements of:

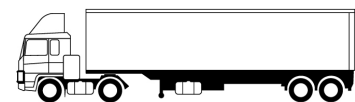
- Caterpillar ECF-2 / ECF-1a
- DD 93K215
- Fiat-Iveco
- DAF
- MACK EO-M Plus

### CHARACTERISTICS

- Rheology geared to practical application
- Low emission, extremely high soot control
- High performance and longlife character
- Best thermal-oxidative stability
- Meets the Euro III emission requirements

### ADVANTAGES AND BENEFITS

- Long engine life time
- Excellent engine cleanliness under all operating conditions
- Long oil change interval
- Prevention of varnish build-up, deposits and oil thickening → long oil life time
- Reduction of the emissions caused by lubricants, low oil consumption





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## SPECIFICATIONS AND TYPICAL PARAMETERS

Feature	Test condition / unit		Diesel Longlife MD 1548	Method acc. to
Appearance			clear, free of contaminations	visual
Approvals			MB-approval 228.3 MB-approval 229.1 MAN M 3275-1 Volvo VDS-3 Renault RLD-2 MACK EO-N MTU oil category 2 Deutz DQC III-10 Cummins CES 20076/77/78	OEM standards
SAE-grade	J 300		15W-40	ASTM
ACEA			E7	Laboratory and engine tests acc. to ASTM and CEC
API			CI-4 Plus/SL	
Density	at 15°C	kg/m <sup>3</sup>	868.5	DIN 51757
Viscosity	at 100°C	mm <sup>2</sup> /s	14.94	ASTM D 7042
Viscosity index			154	DIN ISO 2909
HTHS-Viscosity	at 150°C	mPa*s	≥ 3.5	ASTM D 4683
Base number		mg KOH / g	11	ASTM D 2896
Flash point	COC	°C	min. 230	DIN EN ISO 2592
Pour point		°C	max. -42	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 90 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.