



ENGINE OILS

ADDINOL DIESEL MD 304, 1034

PRODUCT DESCRIPTION

The engine oils ADDINOL Diesel MD 304 and MD 1034 are based on high-quality mineral oil raffinates and hydro-crack base oils and are additivated with an additive combination of the latest technology to guarantee an optimum performance level as specified in API CC/SF.

APPLICATION

- For diesel engines without charging in diesel fuel operations with medium requirements on the lubricant.

Mono-grade oil MD 304

- For automotive diesel engines, all types of commercial vehicles and stationary aggregates in accordance with the manufacturers' specifications

Multi-grade oil MD 1034

- Preferably for winter service in automotive diesel engines, with excellent cold starting properties
- Also suitable for the usage all the year round in some types of engines in accordance with the manufacturers' specifications

SPECIFICATIONS / APPROVALS

Meets the international specifications of:

- API CC/SF

DELIVERY

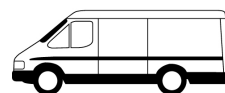
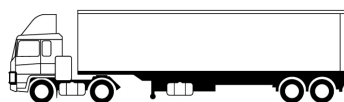
Delivery preferable in drums and 20 l cans

CHARACTERISTICS

- Good cleaning capacity
- Low evaporation loss
- Excellent wear protection
- Best thermal-oxidative stability
- Excellent corrosion protection

ADVANTAGES AND BENEFITS

- High piston cleanliness
- Low oil consumption
- Long engine lifetime
- Long oil lifetime
- Very good engine protection





ADDINOL DIESEL MD 304, 1034

SPECIFICATIONS AND TYPICAL PARAMETERS

Feature	Test conditions / unit		MD 304	MD 1034	Method acc. to
Appearance			clear, free from contaminations		visual
SAE grade	J 300		30	10W-30	ASTM
ACEA			E3 / B3		Laboratory and engine tests acc. to ASTM and CEC
API			CC/SF		
Density	at 15°C	kg/m ³	883	853	DIN 51757
Viscosity	at 100°C	mm ² /s	11.3	11.2	ASTM D 7042
HTHS-Viscosity	at 150°C	mPa*s	≥ 3.5		ASTM D 4683
TBN		mg KOH / g	5.2	5.4	DIN ISO 3771
Flash point	COC	°C	min. 260	min. 240	DIN EN ISO 2592
Pour point		°C	max. -30	max. -40	DIN ISO 3016
Pumpability		°C	--	bis -30	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.