



ENGINE OILS

ADDINOL TURBO DIESEL MD 105, 205, 305, 405, 505

PRODUCT DESCRIPTION

The mono-grade engine oils ADDINOL Turbo Diesel MD 105 ... 505 are based on high-quality mineral oil raffinates and selected additive combinations, thus guaranteeing engine cleanliness, dispersion, anticorrosive and anti-wear characteristics as well as thermal-oxidative stability in compliance with the very high performance level.

APPLICATION

- In charged and non-charged diesel engines
 - of automobiles
 - of building machinery and other commercial vehicles
 - of stationary engines, which make very high demands on the engine oils
- Engine oils can be applied in special gears and hydraulic systems (consider the regulations of the manufacturers)

SPECIFICATIONS / APPROVALS

Meets and exceeds the international specifications of:

- ACEA E2
- API CG-4/SJ

Comply with the requirements of:

- MB-approval 228.0
- MAN 270
- MTU oil category 1
- MD 105: Caterpillar TO-2

Approved acc. to:

- MD 305: ZF000624 - ZF TE-ML 02H, 04B
- MD 405: ZF000625 - ZF TE-ML 02H, 04B

DELIVERY

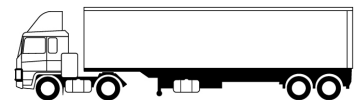
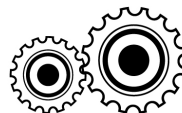
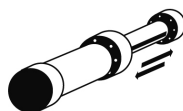
Delivery preferable in drums and 20 l cans.

CHARACTERISTICS

- Best dispersant-behaviour
- Improved wear protection
- Monograde engine oil

ADVANTAGES AND BENEFITS

- Excellent engine cleanliness
- Outstanding protection against mechanical and corrosive wear
- Suitable as hydraulic and gear oil, if a monograde oil is required





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SPECIFICATIONS AND TYPICAL PARAMETERS

Feature	Test conditions / unit		MD 105	MD 205	MD 305	MD 405	MD 505	Method acc. to	
Appearance	clear, free from contaminations							visual	
Approvals					ZF000624: ZF TE-ML 02H, 04B	ZF000625: ZF TE-ML 02H, 04B		OEM standards	
SAE grade	J 300		10W	20W-20	30	40	50	ASTM	
ACEA	E2							Laboratory and engine tests acc. to ASTM and CEC	
API	CG-4 / SJ								
Density	at 15°C	kg/m ³	860	862	878	889	891	DIN 51757	
Viscosity	at 100°C	mm ² /s	6.6	8.2	11.2	14.0	19.4	ASTM D 7042	
Viscosity index			132	128	113	104	106	DIN ISO 2909	
TBN		mg KOH/g	8						DIN ISO 3771
Flash point	COC	°C min.	240	252	264	270	270	DIN EN ISO 2592	
Pour point		°C max.	-46	-44	-32	-32	-32	ASTM D 7346	
Pumpability		°C	down to -30	down to -20	--	--	--	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.