



ENGINE OILS

ADDINOL TURBO DIESEL MD 407

PRODUCT DESCRIPTION

The monograde engine oil ADDINOL Turbo Diesel MD 407 is based on high-quality mineral oil raffinates and new outstanding additive technologies with highest specific performance level. High engine cleanliness, best corrosion and wear protection as well as good thermal-oxidative stability were proven on the test bench and in field tests.

APPLICATION

- Particularly suitable for the application in middle- and high-speed diesel engines of fast ships with high and small extent of utilization, like:
 - fast ferries
 - patrol boats
 - corvettes
 - yachts
 - police boats
 - frigates
- Also suitable within stationary range and for diesel engines of railway vehicles
- Successful on-road tests and excellent experience in locomotives of different types

SPECIFICATIONS / APPROVALS

Meets and exceeds the international specifications of:

- ACEA E7
- API CI-4

Approved according to:

- MTU oil category 2
- Detroit Diesel Series 2000 & 4000 (DDC)
- Reintjes BV 1597/4

Complies with the requirements of:

- MB-Approval 228.2
- MAN 270
- Caterpillar
- MACK EO-M Plus
- Cummins

DELIVERY

Delivery preferable in tank cars, drums and 20L cans

CHARACTERISTICS

- Excellent protection against wear and corrosion
- Best thermal-oxidative stability
- Good cleaning capacity
- Reduced transmission wear

ADVANTAGES AND BENEFITS

- Excellent engine cleanliness
- Long oil lifetime
- High piston cleanliness
- Improved efficiency under higher number of revolutions





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SPECIFICATIONS AND TYPICAL PARAMETERS

Feature	Test conditions / unit		Turbo Diesel MD 407	Method acc. to
Appearance			clear, free from contaminations	visual
Approvals			MTU oil category 2 DD BR 2000 & 4000 Reintjes BV 1597/4	OEM standards
SAE grade	J 300		40	ASTM
ACEA			E7	Laboratory and engine tests acc. to ASTM and CEC
API			CI-4	
Density	at 15°C	kg/m ³	875	DIN 51757
Viscosity	at 100°C	mm ² /s	14.6	ASTM D 7042
Viscosity index			118	DIN ISO 2909
Base number		mg KOH / g	10	ASTM D 2896
Flash point	COC	°C	min. 290	DIN EN ISO 2592
Pour point		°C	max. -38	ASTM D 7346
FZG test A/8.3/90		load stage	> 12	ISO 14635-1

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 worldwide activities. ADDINOL high-performance lubricants are distributed by more than 90 international partners.

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