



ENGINE OILS

ADDINOL COMMERCIAL 1040 E4

PRODUCT DESCRIPTION

ADDINOL Commercial 1040 E4 is a semi-synthetic Ultra High-Performance-Diesel-Engine oil (UHPD) of a new generation. The fuel-economy oil was formulated on selected base oils with a highly efficient additive package. The combination meets and exceeds the latest requirements of OEM as well as the emission standard Euro V and Euro VI*.

APPLICATION

- Preferred for highly charged diesel engines of commercial vehicles exposed to heavy operating conditions.
- Ensures longest oil change intervals according to the instructions of engine manufacturers.
- Universal application in truck fleets with different manufacturers using fuels with a sulphur content below 0.05%
- Not suitable for use in vehicles with DPF-systems!*

* Euro VI emissions standard - MAN M 3377: use only on request, as significantly reduced service life of the diesel particulate filter is possible. Not suitable for vehicles with maintenance contract!

DELIVERY

Delivery preferable as loose commodity, in containers, drums and 20L cans.

SPECIFICATIONS / APPROVALS

Meets and exceeds the international specifications of:

- ACEA E4/E7
- API CI-4
- Global DHD-1

Approved according to:

- MAN M 3277
- MAN M 3377
- MB-Approval 228.5
- MTU oil category 3

Complies with the requirements of:

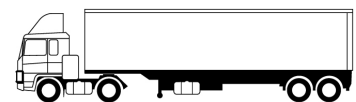
- Volvo VDS-3
- Renault RXD
- Deutz DQC III-10
- Caterpillar ECF-1-a
- DAF
- Mack EO-M Plus
- Cummins CES 20078
- Other commercial vehicle manufacturers

CHARACTERISTICS

- Best detergent-dispersant behaviour
- Additives against mechanical and corrosive wear
- Excellent viscosity-temperature behaviour
- Optimum friction reduction
- Best thermal-oxidative stability
- Low evaporation losses
- Very good elastomer compatibility
- Specific selection of components

ADVANTAGES AND BENEFITS

- Excellent engine cleanliness
- Optimal protection of components against wear, long engine lifetime
- Outstanding cold-start and warming-up performance, even at very low outdoor temperatures
- Fuel economy characteristics, fuel saving
- High ageing stability
- Low oil consumption
- Leakages are avoidable
- Very low environmental pollution by reduced emissions





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SPECIFICATIONS AND TYPICAL PARAMETERS

Feature	Test conditions / unit		Commercial 1040 E4	Method acc. to
Appearance			clear, free from contaminations	visual
Approvals			MAN M 3277 MAN M 3377 MB-Approval 228.5 MTU oil category 3	OEM standards
SAE-grade	J 300		10W-40	ASTM
ACEA			E4/ E7	Laboratory and engine tests acc. to ASTM and CEC
API			CI-4	
Density	at 15°C	kg/m ³	864	DIN 51757
Viscosity	at 100°C	mm ² /s	14.3	ASTM D 7042
Viscosity index			151	DIN ISO 2909
HTHS-Viscosity	at 150°C	mPa*s	> 3,5	ASTM4683
Base number			12,9	ASTM D 2896
Flash point	COC	°C	min. 230	DIN EN ISO 2592
Pour point			-35	DIN ISO 3016
Pumpability			down to -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.