



ENGINE OILS

ADDINOL PROFESSIONAL 1040 E9 ADDINOL PROFESSIONAL 1540 E9

PRODUCT DESCRIPTION

The engine oils ADDINOL Professional 1040 E9 and Professional 1540 E9 are Super High-Performance Diesel engine oils (SHPD) for the application in turbocharged diesel engines with high requirements in the SAE grades 10W-40 and 15W-40.

ADDINOL Professional 1040 E9 and 1540 E9 are based on selected base oils combined with high-performing additives. They fulfil the extreme demands of the Euro IV and the sensitive Euro V-diesel engine generation in combination with a very low sulphur content of the diesel fuel. Euro VI only refers to Iveco and Volvo diesel engines.

APPLICATION

- Excellent suitability for lubrication of highly charged turbo diesel engines in trucks, construction and agriculture machines equipped with exhaust gas aftertreatment systems like diesel particle filter (DPF) or selective catalytic reduction – Ad Blue (SCR) and exhaust gas recirculation systems (EGR).

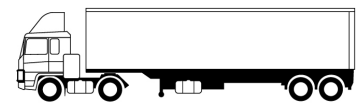
Manufacturer instructions of OEM must be followed for Euro V and Euro VI engines!

DELIVERY

Delivery preferable in drums and 20L cans.

CHARACTERISTICS

- Very good corrosion and wear protection
- Reduction of lubricant-related exhaust gas and particle emissions
- Mid SAPS-character
- Improved friction behaviour
- Wide and universal range of application
- Outstanding ageing and shear stability



SPECIFICATIONS / APPROVALS

Meet and exceed the international specifications of:

- ACEA E9/E7
- API CJ-4/SM

ADDINOL Professional 1040 E9 and 1540 E9 are approved by:

- MB-Approval 228.31
- MAN M 3575
- Volvo VDS-4 (incl. VDS-3, VDS-2, VDS)
- Renault RLD-3
- Mack EO-O Premium Plus
- Cummins CES 20081

Comply with the requirements of:

- MTU-oil category 2.1
- DAF
- Deutz DQC III-10 LA
- Caterpillar ECF-3, ECF-2, ECF-1a
- Detroit Diesel DDC 93K218
- Iveco: ACEA E9: 1040 E9
ACEA E7: 1540 E9

ADVANTAGES AND BENEFITS

- Long lifetime of engines
- Outstanding environmental behaviour because of lower exhaust emissions
- Longer lifetime of aftertreatment system
- Excellent engine cleanliness
- Less fuel consumption
- Reduction of oil types (according to OEM requirements)
- Reliable lubrication under all operating conditions over longest oil change intervals



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SPECIFICATIONS AND TYPICAL PARAMETERS

Feature	Test conditions / unit		1040 E9	1540 E9	Method acc. to
Appearance			clear, free from contaminations		visual
Approvals			MB-Approval 228.31 MAN M 3575 Volvo VDS-4 Renault RLD-3 MACK EO-O Premium Plus Cummins CES 20081		OEM standards
SAE grade	J 300		10W-40	15W-40	ASTM
ACEA			E9/E7		Laboratory and engine tests acc. to ASTM and CEC
API			CJ-4/SM		
Density	at 15°C	kg/m ³	861	865	DIN 51757
Viscosity	at 100°C	mm ² /s	14.3	15.4	ASTM D 7042
Viscosity index			157	145	DIN ISO 2909
Base number		mg KOH / g	8.9	8.7	ASTM D 2896
Flash point	COC	°C min.	234	225	DIN EN ISO 2592
Pour point		°C max.	-40	-40	ASTM D 4684
Pumpability		°C	down to -30	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.