



ENGINE OILS

ADDINOL ECO CARGO 1040 LE

PRODUCT DESCRIPTION

ADDINOL Eco Cargo 1040 LE is a fuel-economy engine oil with the SAE-grade 10W-40 and fulfils the extreme engine oil requirements for the Euro III, Euro IV, Euro V and the new sensitive Euro VI diesel engine generation.

The completely new additive technology, combined with solely synthetic base oil components, leads to significant a fuel saving.

APPLICATION

- Excellent applicability for the Euro III, Euro IV, Euro V and the new Euro VI commercial vehicle engine generation with exhaust aftertreatment technology posing extremely high lubrication-technical and eco-logical requirements
- High-Tech-Diesel-Engine-Oil (HTDEO) with low SAPS characteristics for the application in heavy duty diesel engines in commercial vehicles and buses which are equipped with the new exhaust aftertreatment technology
- Excellent suitability for engines operated with natural gas (CNG) and / or liquefied petroleum gas (LPG).
- Highly fit for public transportation services with increased CNG operation.

SPECIFICATIONS

Meets and exceeds the international specifications of:

- ACEA E6/E7
- API CI-4
- JASO DH-2

Complies with the requirements of:

- MB-Approval 228.51
- MB-Approval 226.9
- MAN M 3477
- MAN M 3271-1 (mobile gas engines)
- Renault RLD-2
- MTU oil category 3.1
- Deutz DQC IV-10 LA
- Volvo VDS-3
- MACK EO-N
- CAT ECF-1-a
- DAF HP 2
- Fiat-Iveco
- Renault RGD, RXD
- Volvo CNG
- Scania Low Ash
- and other OEM's

DELIVERY

Delivery preferable in drums, 20L and 5L cans.

CHARACTERISTICS

- Low SAPS-character
 - less ash forming additives
 - less phosphorus and less sulphur
- Particularly fuel-efficient
- Improved friction behaviour
- Excellent behaviour under low temperature conditions
- Outstanding ageing and shear stability
- Low evaporation loss

ADVANTAGES AND BENEFITS

- Higher DPF lifetime
- Longer lifetime of engine and aftertreatment system – outstanding environmental behaviour because of lower exhaust emissions
- Suited for vehicles with gas engines
- Excellent cost-benefit ratio
- Less fuel consumption
- Outstanding cold-start and warming-up performance, even at very low outdoor temperatures
- Reliable lubrication under all operating conditions over longest oil change intervals
- Lowering of oil consumption up to 30%



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SPECIFICATIONS AND TYPICAL PARAMETERS

Feature	Test conditions / unit		Eco Cargo 1040 LE	Method acc. to
Appearance			clear, free from contaminations	visual
SAE grade	J 300		10W-40	ASTM
ACEA			E6/E7	Laboratory and engine tests acc. to ASTM and CEC
API			CI-4	
Density	at 15°C	kg/m ³	858	DIN 51757
Viscosity	at 100°C	mm ² /s	13.6	ASTM D 7042
Viscosity index			153	DIN ISO 2909
HTHS-Viscosity	at 150°C	mPa*s	3.90	ASTM D 4683
Base number		mg KOH / g	10	ASTM D 2896
Flash point	COC	°C min.	235	DIN EN ISO 2592
Pour point		°C max.	-38	ASTM D 7346
Pumpability		°C	down to -30	ASTM D 4684
Sulphated ash		Ma-%	0.98	DIN 51575

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.