



GAS ENGINE OILS

ADDINOL ECO GAS 4000 XD

PRODUCT DESCRIPTION

ADDINOL Eco Gas 4000 XD is a high-performance engine oil of the latest generation. It is developed on the basis of innovative additive technologies, which are tailored to practical application, and powerful high-quality base oils.

The operation with natural and special gases means particularly extreme thermal loads to all components in current engine generations of the OEMs. The novel formulation of ADDINOL Eco Gas 4000 XD provides an outstanding all-round protection especially under these conditions. The low depositing tendency allows an outstanding engine cleanliness, also at high temperatures, as well as a significant oil change interval extension by its long-life characteristics.

APPLICATION

- Excellent suitability for the application in modern turbo-charged gas engines operated with natural and special gas in all performance ranges
- For applications in modern plants with highest efficiency
- Reliable application under thermally heavy loaded operating conditions (e.g. steel piston technology)
- Preferred use in engines which demand low ash engine oils

DELIVERY

Delivery preferable in drums and 20L cans.

CHARACTERISTICS

- Excellent ageing stability
- Outstanding thermal stability
- Reliable protection of all components against wear
- Highest engine cleanliness
- Low ash performance
- Good neutralisation ability

SPECIFICATIONS / APPROVALS

Approved for the operation with natural gas and cleaned biogas by:

- INNIO Jenbacher – TA 1000-1109 incl. Cat Series 2, 3, 6 (all versions): fuel class A, S and
- MWM (Deutz Power Systems)
- TR 0199-99-2105: SuA up to 0.6 wt.%
- Caterpillar CG 132, CG 170, CG 260 TR 0199-99-12105/11: SuA up to 0.6 wt.%
- R Schmitt Enertec RE-800-001-160202
- 2G Energy AG agenitor series 4

Approved for the operation with natural gas by:

- MAN M 3271-2 for operation with natural gas
- MAN Energy Solutions (4 stroke medium speed)
- MTU Onsite Energy: Series 400 for operation with natural gas (MDE series 28xx/ 30xx)
- Tedom 61-0-0281.1 (G, P)
- Perkins Series 4000 "for operation with natural gas"

Meets the technical demands for the operation with natural gas acc. to:

- Liebherr
- Waukesha
- Deutz AG (TR0199-99-01213)

ADVANTAGES AND BENEFITS

- Reliable lubrication under all operating conditions
- Stable oil film, also at extreme temperature loads
- Oil change intervals above average
- Optimum engine lifetime
- Reduced maintenance effort
- Maximum engine performance
- Best protection of catalytic converter systems for long lifetimes
- No disposal formation
- Reliable protection against corrosive wear

Effective oil operating times for every combined heat and power plant operator by the help of ADDINOL lab report.



ADDINOL ECO GAS 4000 XD

SPECIFICATIONS AND TYPICAL PARAMETERS

Feature	Test condition / unit		Eco Gas 4000 XD	Method acc. to
Appearance			clear, without contaminations	visual
SAE grade	J 300		40	ASTM
Density	at 15°C	kg/m ³	874.2	DIN 51757
Viscosity	at 40°C	mm ² /s	116.5	ASTM D 7042
	at 100°C	mm ² /s	13.27	
Viscosity index			109	DIN ISO 2909
Flash point	COC	°C	min. 275	DIN EN ISO 2592
Pour point			max. -35	ASTM D 7346
TBN	mg KOH / g		7.3	DIN ISO 3771
Sulphated ash	Ma-%		0.62	DIN 51755

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.