



## GAS ENGINE OILS

# ADDINOL ECO GAS 4010 XD

### PRODUCT DESCRIPTION

ADDINOL Eco Gas 4010 XD is a high-performance engine oil, specially adapted to the extreme thermal loads during operation with natural gas and cleaned special gases. Using the latest additive technology and high-quality mineral oil raffinates ADDINOL Eco Gas 4010 XD provides an excellent all-round protection for gas engines.

The high thermal-oxidative stability of ADDINOL Eco Gas 4010 XD achieves high engine cleanliness and ensures the full performance of the engine components. Even at extreme temperatures, such as in the operation with natural gas, a stable lubricating film is ensured. The Long-Life Character supports the significant increase in the specific oil drain intervals.

### 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

### 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 for natural gas operation:

- INNIO Jenbacher - TA 1000-1109 BR 2, 3, 4 (all versions) & 6 (all versions including 624 engines): gas class A & S incl. Cat

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

- MTU Onsite Energy BR 400 - for natural gas (MDE BR 28xx/ 30xx)
- MTU Onsite Energy BR 4000 - for natural gas;
- MAN M 3271-2 for natural gas
- 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 bis / up to 0,6 wt%
- Tedom 61-0-0281.1 (G, P)

### DELIVERY

Delivery preferable in drums and IBCs.

### 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.



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## SPECIFICATIONS AND TYPICAL PARAMETERS

Feature	Test condition / unit		Eco Gas 4010 XD	Method acc. to
Appearance			clear, without contaminations	visual
SAE grade	J 300		40	ASTM
Density	at 15°C	kg/m <sup>3</sup>	875	DIN 51757
Viscosity	at 40°C	mm <sup>2</sup> /s	121	ASTM D 7042
	at 100°C	mm <sup>2</sup> /s	13.9	
Viscosity index			114	DIN ISO 2909
Flash point	COC	°C	260	DIN EN ISO 2592
Pour point		°C	-16	ASTM D 7346
TBN		mg KOH / g	7.5	DIN ISO 3771
Sulphated ash		Ma-%	0.49	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 worldwide activities. ADDINOL high-performance lubricants are distributed by more than 120 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.