

No. 1

Eco Gas 500 XD / 4000 XD / 4010 XD

The No. 1 for natural gas applications – Designed for highest thermal loads and longest oil change intervals

The gas engine oils of the **ADDINOL Eco Gas XD series, Eco Gas 500 XD, 4000 XD and 4010 XD**, are high-performance oils of the latest generation based on modern, application-oriented additive technologies in combination with high-quality base oils. They have been especially developed for turbo-charged engines operating with natural gas and have a distinct low-ash character. Thanks to the above-average basic reserve, the oils can also be used without any problems in operations with cleaned special gases of near-natural gas quality and reliably compensate possible irregularities in the gas quality.

ADDINOL Eco Gas 500 XD in SAE grade 50 possesses highest temperature stability and is optimally equipped for plants achieving higher heat recovery rates.

ADDINOL Eco Gas 4000 XD in SAE grade 40 is approved for engines with medium and highest loads by numerous OEMs.

ADDINOL Eco Gas 4010 XD in SAE grade 40 was specifically developed for applications with above-average requirements (such as GE Jenbacher Series 9 or MTU Series 4000).

Thermal stability

In order to reach higher performance levels while at the same time meeting stricter emission standards, OEMs are relying on new piston designs or modified geometries in the combustion chamber. This results in extreme thermal loads that push conventional gas engine oils to their performance limits. **ADDINOL Eco Gas XD** possesses higher thermal-oxidative stability and thus delays oxidation and the results of oil ageing thanks to new additive technologies. At the same time, longer application intervals are achieved due to the high thermal stability. The heat recovery rate realised is significantly higher, resulting in higher overall efficiency.

Engine cleanliness

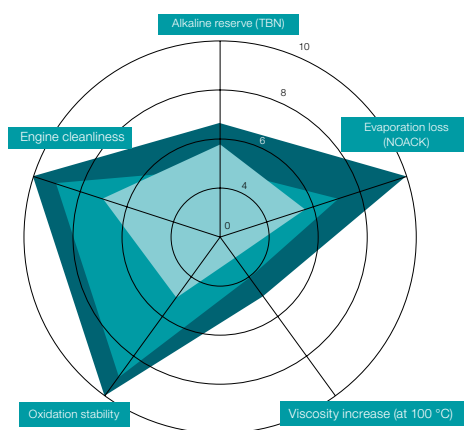
Thanks to the balanced formula, deposits on valves, pistons, piston rings and liners are effectively prevented, even at high temperatures. Thus, **ADDINOL Eco Gas XD** ensures full performance of the engine components as well as long operating times.

Wear protection

Even at higher piston temperatures and pressures typical of the new engine generation of the individual OEMs, the formation of organic acids is significantly reduced thanks to extraordinary oxidation stability and maximum neutralization capacity. Corrosive wear can be minimized more effectively and damage to the engine is reliably prevented.

Extended Drain

The application of **ADDINOL Eco Gas XD** is characterised by longer oil change intervals compared to the previous standard – with maximum operational safety for the engine. Longer service lives mean higher availability of the plant and reduced oil consumption. This in turn supports resource conservation and lower maintenance costs.





Specifications / Approvals

Application	Gas type	Eco Gas 500 XD	Eco Gas 4000 XD	Eco Gas 4010 XD
Ash content		low ash	low ash	low ash
Natural gas		✓	✓	✓
Special gases*			✓	
Special gases* of qualities similar to natural gas			✓	✓
Special gas* operations with catalytic converter			✓	✓
Caterpillar CG Series (TR 0199-99-12105)	Natural gas	O	+	O
	Special gas		+	
	Cleaned special gas		+	
Innio Jenbacher (TA 1000-1109)	Series 2 + 3		Class A, S, Cat	Class A, S, Cat
	Series 4 Version A + B			Class A, S, Cat
	Series 4 Version C			Class A, S, Cat
	Series 6 Version C + E		Class A, S, Cat	Class A, S, Cat
	Series 6 Version F + J		Class A, S, Cat	Class A, S, Cat
	Series 6 Version H + K		Class A, S, Cat (until 28.2.2020)	Class A, S, Cat
MAN	M 3271-2 Natural gas		+	O
	4-stroke medium-speed Natural gas	+	+	
MTU Onsite Energy Series 400	Natural gas		+	O
MTU Onsite Energy Series 4000	Natural gas			O
MWM (TR 0199-99-2105)	Natural gas		+	O
	Special gas		+	
	Cleaned special gas		+	
Perkins	Natural gas		+	
Tedom	Natural gas		+	
Further specifications and approvals			<ul style="list-style-type: none"> • R Schmitt Enertec RE-800-001-160202 • 2G Energy AG agenitor Series 4 • Liebherr • Waukesha • Deutz AG (TR0199-99-01213) 	

* Special gases = biogas, mine gas, landfill gas, sewage gas
+ = approved / () = running / O = meets

ADDINOL accompanies the use of the gas engine oils with the Analysis Service in order to ensure the safe operation of your plant. Please contact us!