



## GAS ENGINE OILS

# ADDINOL GAS ENGINE OIL MG 1040, MG 1540, MG 2050

### PRODUCT DESCRIPTION

ADDINOL Gas engine oil MG 1040, MG 1540 and MG 2050 are multi-grade engine oils of SAE grades 10W-40, 15W-40 and 20W-50.

Due to the special combination of high-quality base oils and powerful additives the products meet the requirements of high-performance engines operated with CNG and LPG.

### APPLICATION

- Excellent suitability for engines operated with natural gas (CNG), liquefied petroleum gas (LPG) as well as diesel fuel
- Highly fit for public transportation services with increased CNG operation

### DELIVERY

Delivery preferable in drums and small cans.

### SPECIFICATIONS

**Meet and exceed the international specifications of:**

- ACEA E3
- API CG-4

**Comply with the requirements for operations with CNG:**

- MB-Approval 226.9
- MAN M 3271-1
- Renault RGD

**Comply with the requirements for operations with diesel fuel:**

- MB-Approval 228.1
- MAN M 3275-1

### CHARACTERISTICS

- Innovative additivation
- Increased wear and corrosion protection
- Improved engine cleanliness
  
- Multi-grade characteristics
- Best oxidation stability

### ADVANTAGES AND BENEFITS

- Efficient control of particle and nitrogen emission
- Maximum engine protection
- No formation of deposits in the cylinder-piston complex
- Prevention of black sludge formation
- All-seasons application
- Ideal operating life of the engine oil



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## SPECIFICATIONS AND TYPICAL PARAMETERS

Feature	Test conditions / unit		MG 1040	MG 1540	MG 2050	Method acc. to
Appearance	clear, free from contaminations					visual
SAE-grade	J 300		10W-40	15W-40	20W-50	ASTM
ACEA	E3					Laboratory and engine tests acc. to ASTM and CEC
API	CG-4					
Density	at 15°C	kg/m <sup>3</sup>	857	868	874	DIN 51757
Viscosity	at 100°C	mm <sup>2</sup> /s	14.3	13.8	18.7	ASTM D 7042
Viscosity index			162	141	136	DIN ISO 2909
HTHS-Viscosity	at 150°C	mPa*s	≥ 3.5			ASTM D 4683
Base number		mg KOH/g	8.1			ASTM D v2896
Flash point	COC	°C min.	244	261	255	DIN EN ISO 2592
Pour point		°C max.	-38	-33	-38	ASTM D 7346
Pumpability		°C	down to -30	down to -25	down to -20	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.