PETROGEN MA 40

Medium-Ash Gas Engine Lubricant

SAE 40

Product introduction

PETROGEN MA 40 is a mineral-based lubricant in the Medium-Ash category, developed for stationary gas engines used in power generation and combined heat and power applications. Selected mineral base oils and a balanced additive system help maintain lubricant performance under thermal, oxidation and nitration stresses.

Its formulation is intended for engines requiring a higher sulfated ash level than low-ash lubricants, balancing engine protection, deposit control and lubrication performance.

Features and benefits

• **Thermal and oxidative stability:** Helps maintain lubricant performance at elevated temperatures and under oxidative stress.

• **Nitration resistance:** Supports lubricant durability where nitration can contribute to oil degradation.

• **Deposit control:** Balances engine cleanliness with the lubrication needs of engines requiring medium-ash oil.

• **Component protection:** Anti-wear and corrosion protection help protect engine components during operation.

• **Viscosity stability:** Supports lubrication of stationary gas engines under operating conditions.

Applications

• Stationary gas engines in electrical power-generation units

• Combined heat and power (CHP) / cogeneration systems

• Gas engines requiring SAE 40 lubricants

• Applications requiring medium-ash lubricants according to engine manufacturer specifications

Use with natural gas and other gaseous fuels is subject to the lubricant requirements specified by the engine manufacturer.

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Technical specifications

Typical physical and chemical properties

Property	Typical value	Unit	Test method
SAE viscosity grade	40	—	—
Density at 15 °C	0.896	g/cm³	ASTM D4052
Kinematic viscosity at 40 °C	160	cSt	ASTM D445
Kinematic viscosity at 100 °C	15.8	cSt	ASTM D445
Viscosity index	100	—	ASTM D2270
Flash point, open cup	262	°C	ASTM D92
Pour point	-24	°C	ASTM D97
Sulfated ash	0.9	wt.%	ASTM D874
Total base number (TBN)	8.8	mg KOH/g	ASTM D2896

Values shown are typical product characteristics.

Selection and use

Before use, verify the viscosity grade, ash level and lubricant requirements against the engine manufacturer’s latest technical documentation. An SAE 40 viscosity grade alone does not establish interchangeability between gas and diesel engine oils, or between low-ash and medium-ash oils.

When changing from another lubricant, assess compatibility and carry out appropriate flushing where required. Monitor used oil according to manufacturer requirements and operating conditions. Determine oil-change intervals in accordance with the engine manufacturer’s recommendations.

Safety and handling

Follow the product Safety Data Sheet (SDS) and site procedures for safety requirements, personal protective equipment, handling, storage and disposal.