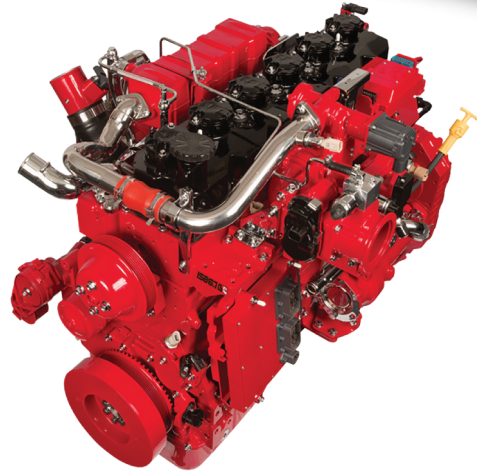


# AMALIE®

Better than it has to be®  
Since 1903



## LOW ASH NATURAL GAS

SAE  
40

## ENGINE OIL

### BENEFITS:

- » Outstanding Protection for Metal Components from Rust, Corrosion, and Wear
- » Excellent Carbon Deposit Control and Engine Cleanliness
- » Expanded Control Over Oil Nitration and Oxidation
- » Extended Drain Capable \*
- » Minimal Valve Recession and Valve Stem Deposits
- » Exceptional Protection from Engine Sludge and Varnish Deposits
- » Compatible with Emissions System Catalysts
- » Over 20 Years of Experience in the Field

\*Extended drain intervals should be determined through a used oil analysis program such as the AMALIE Lubricant Analysis Program and will be affected by factors such as gas quality, operation in excess of ISO STD Power, or peak shaving.



MADE IN U.S.A.



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# LOW ASH NATURAL GAS ENGINE OIL

**AMALIE Low Ash Natural Gas Engine Oil 40** is a superior quality, low-ash, dispersant-detergent engine oil offering robust protection for 2-stroke engines operating on low sulfur and low CFC natural gas under heavy loads and high temperatures. Applications include natural gas engines found on crude oil and gas transmission pipelines, electrical power generators, and gas compressors.

**AMALIE Low Ash Natural Gas Engine Oil 40** is a balanced multifunctional formulation providing superior carbon deposit control, exceptional corrosion protection, excellent liner wear protection, low sludge formation, and reduced piston scuffing. Valve recession and piston-ring wear is controlled by advanced anti-wear and anti-scuff additives reducing maintenance requirements and extending the life of the engine. It provides outstanding control of oil oxidation and nitration leading to reduced oil thickening and more efficient engine function. The salicylate detergent system provides excellent cleanliness and base number (TBN) durability while exceeding OEM requirements for exhaust catalyst system protection.

Manufacturer drain intervals are recommended; however, field trials have proven the oils' ability to extend use beyond OEM drain intervals. Extended drain intervals should be determined through a used oil analysis program such as the AMALIE Lubricant Analysis Program and will be affected by factors such as gas quality, operation in excess of ISO STD Power, or peak shaving.

## TYPICAL PHYSICAL AND CHEMICAL PROPERTIES

Viscosity Grade.....	40
Kinematic Viscosity @100°C, cSt.....	13.7
Kinematic Viscosity @40°C, cSt.....	130
Viscosity Index.....	101
Flash Point, °C (°F).....	270 (518)
Pour Point, °C.....	-30
Density, S.G.....	0.88
Sulfated Ash, Wt%.....	0.46
Zinc, PPM.....	270
TBN, mgKOH/g.....	5.8
Foam Seq. I (Stability/Tendency), ml/ml.....	0/0

Typical values are listed. Variations not affecting the performance of this fluid may occur during production; however, these variations will not fall outside of set specification parameters.

Please consult AMALIE Technical Services or your local representative for a full listing of applications.

Technical Services: • (800) 368-1264 • techservices@amalie.com

## LOW ASH NATURAL GAS

VISCOSITY	PACK SIZE	PART #
40	55 Gallon Drum	160-76343-05

Always refer to your vehicles operating manual to select the correct grade of oil for your engine. The data presented herein are believed to be accurate; however, Amalie Oil Company shall not be liable for its content and makes no warranty with respect thereto.

### Health and Safety

Safety Data Sheets (SDS) are available from your sales representative or at AMALIE.com.

## APPLICATIONS AND RECOMMENDATIONS

AMALIE Low Ash Natural Gas Engine Oil 40 is designed for use in stationary high-output turbocharged four-stroke engines that require low-ash (~.50%) engine oil and are fueled by natural gas. It may also be used in some two-stroke applications and older naturally aspirated engines requiring API CF category oils.

AMALIE Low Ash Natural Gas Engine Oil 40 is recommended for use in the following OEM engines where the oil type above is required: Bergen, Caterpillar, Jenbacher, MAN, MTU, Wartsila, Waukesha.

## APPLICATION CHART

GE Jenbacher	Type 2, 3, 4 and 6 Aluminum pistons
Caterpillar	CG132, CG170, CG260, G3300, G3400, G3500, G3600, TR2105
Waukesha	VGf, VGP, and 220GL
Bergen Engines (RR)	B35:40, B36:45
MAN ES (Augsburg)	Energy Solutions
Wartsila	25SG, 28SG, 34SG, 50SG, 175SG, 220SG, 20DF, 32DF, 34DF, and 50DF
Dresser-Rand	Category I and II