

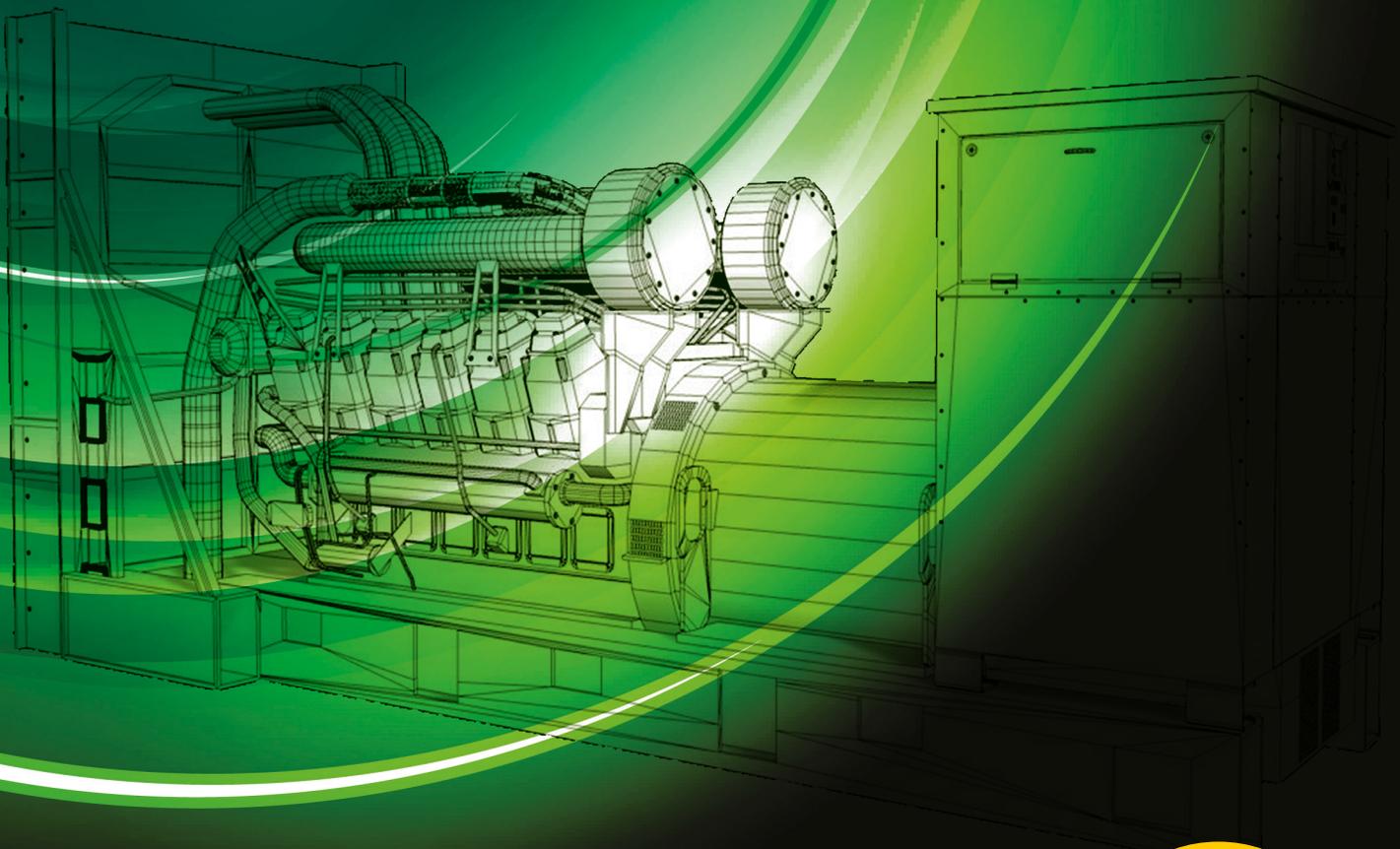
# Geo

PREMIUM GAS ENGINE OILS



## Gas Engine Oils

A range of high-quality gas engine oils designed to perform



**MORRIS**  
LUBRICANTS  
ESTABLISHED 1869

*Performance Powered Through Technology*

## INNOVATORS IN GAS ENGINE OILS

As one of Europe's leading manufacturers of high quality technical lubricant products, we have been delivering lubricant innovation for over 140 years. We're constantly striving to develop the next generation of products that not only meet, but far exceed our clients' expectations. Our highly-skilled, expert team works in close collaboration with the world's major gas engine OEMs to ensure that our manufacturer-approved and field-tested products continue to meet the very latest and most stringent of global standards.

## A COMPREHENSIVE RANGE OF GAS ENGINE OILS

Our range of gas engine oils has been specifically formulated to offer enhanced corrosion protection, oxidative and nitration stability, wide operating temperature range, low deposit forming performance together with a robust acid neutralisation system with protracted field proven drain times. Fuel gases include; natural gas, biogas, syngas and landfill.



## UNDERSTANDING YOUR NEEDS

Our world-renowned Research and Development department is constantly innovating to develop the next generation of world-class products for gas engines of the future as well as today. Our commitment to customer care is further demonstrated by our value-added services and infrastructure, developed through continuous collaboration with leading gas engine OEMs and maintenance operators.

## ASK THE EXPERT

We're hugely proud of the relationships we have with our customers and are always on-hand to provide expert technical support whenever it is needed. Our expert team has extensive knowledge of lubricants and their applications, ensuring we are able to identify and recommend the perfect lubricant solutions to our customers' requirements.



### GEO ULTRA 40 (SA = 0.54%) n b b

Morris GEO Ultra 40 is a premium high performance, low ash gas engine oil formulated to lubricate a wide range of gas fueled engines. Morris GEO Ultra 40 provides a stable protective oil film over a wide operating temperature range, due to its outstanding level of thermal stability and low deposit forming performance. The low ash additive system has been developed to ensure that rings and liners do not suffer damaging wear and valve seat recession is reduced to an absolute minimum, whilst still providing a long effective oil life.

#### Approvals:

GE Jenbacher TI 1000-1109:

Type 2/3/4A-B/6C-E Class A

Type 4A-B/6C-E for Class B

MWM GmbH TR 0199-99-2105 (TCG 2016, TCG 2020, TCG 2032)

Caterpillar Energy Solutions TR 0199-99-2105 (CG 132, CG 170, CG 260)

Cummins (Extended drain)

MAN 3271-2 (Approval Pending)

MTU (Approval Pending)

Wärtsilä (Approval Pending)

**Part number:** GUS

### GEO VPO

Developed to meet the demands of high performance vane pumps used in biogas digestion plants. Formulated from high quality Group II base oils and a combination of ashless additives that provide excellent oxidation stability, protection against rust & corrosion, low foaming and excellent demulsibility.

Specifically developed for continuous anaerobic digester gas mixing systems utilising oil lubricated, sliding vane gas compressors.

The inclusion of specially selected base oils and additives ensure continuous protection against oxidative by products thus ensuring optimised vane life.

#### Morris Recommendations:

Suitable for vein pumps utilised in biogas digestion plants

**Part number:** GPO

### GEO ULTRA G-LF 40 (SA = 0.55%) b l

Morris GEO Ultra G-LF 40 is a premium high performance, low ash gas engine oil formulated to lubricate high-output, 4-cycle natural gas engines operating on special gases such as landfill, Bio digestion, mine or wood derived gases. Morris GEO Ultra G-LF 40 has been developed and formulated to provide outstanding deposit, wear, base retention, oxidation and nitration control. Low ash technology combats the effect of ash deposits on critical engine components, helping to maximise operational efficiency and output. Additionally, its enhanced base retention performance neutralises harmful acids, protecting engine components from harmful corrosive attack.

Note: Gas engines fuelled with high levels of H2S and/or corrosive Organic Halides may not benefit from low ash technology.

#### Approvals:

GE Jenbacher TI 1000-1109:

Type 2/3/4A-B/6C-E Gas Class B/C

MAN 3271-4 (Special Gas) – Approval (TUC 0630/16)

Dresser-Rand Guascor (Approval Pending)

**Part number:** GUG

### GEO ULTRA LZ 40 (SA = 0.5%)

Morris GEO LZ 40 is a premium high performance, low ash gas engine oil formulated to lubricate high-output, 4-cycle natural gas engines operating on special gases such as landfill and Bio digestion. Morris GEO LZ 40 has been developed and formulated to provide outstanding deposit, wear, base retention, oxidation and nitration control. The patented additive has a proven ability to combat the effects of Siloxane combustion products. Through a combination of field trials and HFRR laboratory testing samples taken in the field, exceptionally low wear rates have been proven even with Silicon levels far in excess of typical operating limits.

#### Approvals:

Caterpillar

GE Jenbacher TI 1000-1109:

Type 2/3/4A-B/6C-E Gas Class C (Pending trial completion)

**Part number:** GLZ

### GEO ULTRA NG 40

Morris GEO NG 40 is a premium high performance, low ash gas engine oil primarily formulated to lubricate high-output, 4-cycle natural gas engines operating on natural gas.

Morris GEO NG 40 has been developed and formulated to provide outstanding deposit, wear, oxidation and nitration control. Through a combination of field trials and laboratory testing, exceptional performance has been shown in highly rated gas engines even with sumps sizes < 100 litres.

#### Morris Recommendations:

MTU Proof of performance

GE Jenbacher

Perkins

MWM

Caterpillar Proof of performance

Cummins

Waukesha Proof of performance

**Part number:** GNG

## SAMPLE ANALYSIS SERVICE

The most effective and least expensive monitoring technique available is the analysis of an engine's lubricant. Unfortunately, many take the lubricant for granted and do not consider engine oil a vital component which should be as closely monitored.

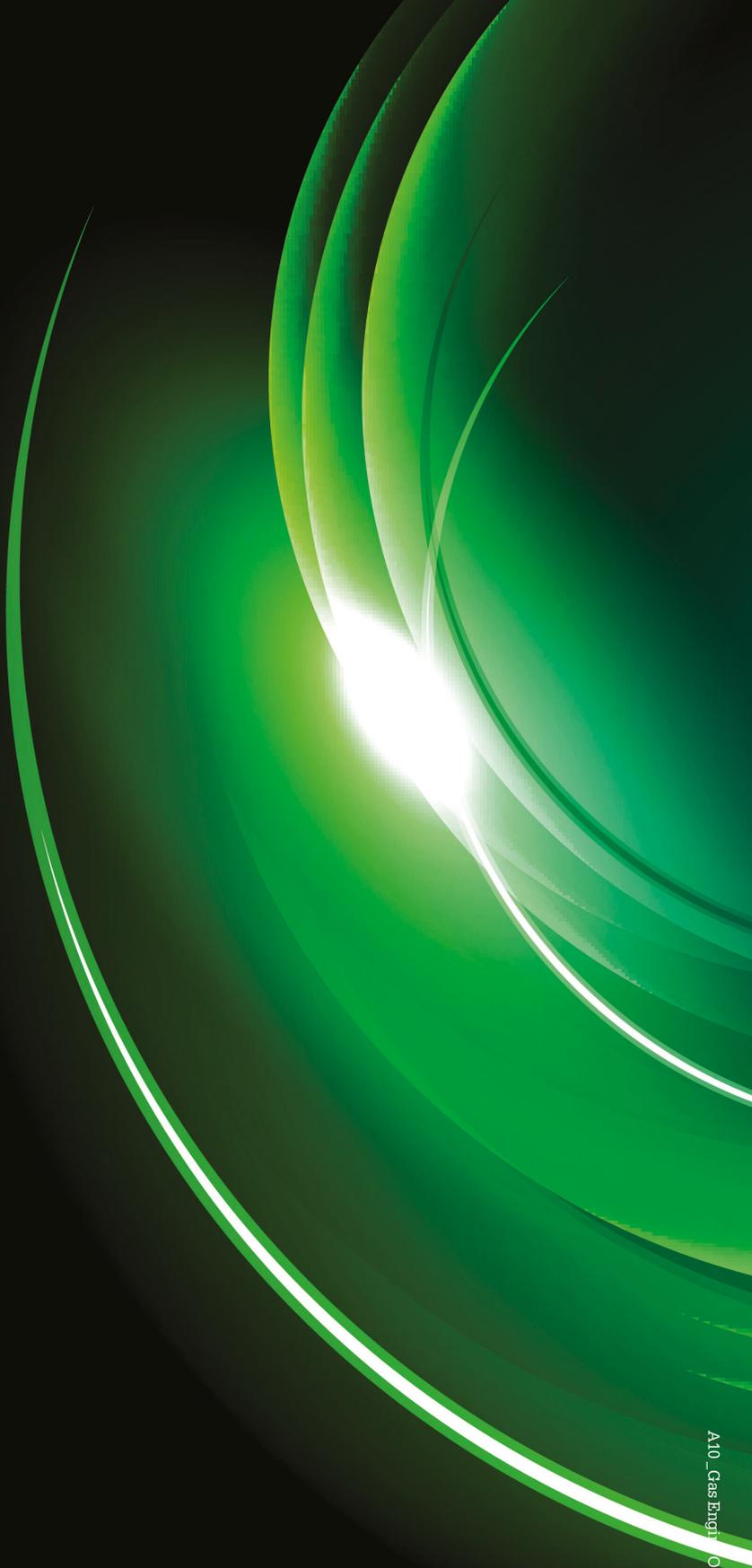
It is absolutely critical that gas engine lubricants are monitored with respect to their particular operating conditions and gas fuel used. It is also important that operators can interpret oil analysis results quickly and apply the recommendations their application may require.

To this end Morris Lubricants have introduced a bespoke sampling kit and internet driven sample interpretation service to allow operators to keep track of individual engines, mapping out drain intervals to ensure no harmful by-products of combustion can lead to premature engine wear or damage.

Pack includes:-

- 10 x sample bottles prelabelled for each individual piece of equipment under test.
- Reports back in PDF format





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All the products are reflective of the latest specifications at the time of going to press and are part of a continuous development programme. The company reserves the right to change formulation and specification, without prior notice to meet the latest trends and developments in lubricant and grease technology. For more detailed information on any product and confirmation of the latest specifications contact our Technical Services Department. Full product data sheets and health and safety information is available on request.