



1. General:	1
2. Effects on the lubricating oil and the oil service life:	1
3. Lubricating oil requirements for GE Jenbacher type 2 and 3:	2
4. Lubricating oil requirements for GE Jenbacher type 4 engines:	3
5. Lubricating oil requirements for GE Jenbacher type 6 engines:	6

## 1. General:

When selecting a lubricating oil suitable for use in GE Jenbacher gas engines, account must be taken of the engine's requirements *and* the requirements related to the fuel gas and - possibly - the exhaust gas treatment unit.

## 2. Effects on the lubricating oil and the oil service life:

Fuel gases contain trace and accompanying elements which can cause deposits in the combustion chamber, acid attack of components and wear.

Experience shows that the following harmful substances have the greatest effects on the lubricating oil and the oil service life:

chlorine, fluoride, sulphur cause the lubricating oil to acidify, and organic silicon compounds cause wear.

Accordingly, fuel gases can be divided in the following classes:

**Class A: natural gas and gases that permanently fulfil the limitations regarding trace and accompanying elements in acc. with TI 1000-0300, TI 1000-0301 and TI 1000-0302**

Natural, Associated Petroleum, mine gas, biogas (sulphur < 200mg/10kWh), special gases (thermoselect and steel plant gases).

**Class B: gases containing acid-forming trace elements or trace elements that primarily affect the oil condition**

Biogas, sludge gas, wood gas and/or pyrolysis gases.

**Class C: gases containing acid-forming trace elements and additional trace elements causing wear**

Landfill gas

Lubricating oil can lose its corrosion protection characteristics due to impurities in the fuel gas. The results of regular lubricating oil analyses are indicative of fuel gas impurities. In this respect, please refer to the following Technical Instructions:

TI 1000-0112

TI 1000-0099 A, B, C, D and K.



### 3. Lubricating oil requirements for GE Jenbacher type 2 and 3:

SAE 40

additives suitable for spark-ignition gas operation

Release procedure successfully completed in acc. with TI 1000-0099A

#### Selection overview

with catalytic converter  
for formaldehyde  
conversion included in GE  
Jenbacher scope of  
supply

	Class A fuel gas	Class B fuel gas	Class C fuel gas	
	Mobil Pegasus 705 Mobil Pegasus 805 <b>Mobil Pegasus 1005**</b>	Mobil Pegasus 710	Mobil Pegasus 610	Mobil Pegasus 705
	BP Energas NGL	BP Energas NGL BP Energas LFM	BP Energas LFM	
	Castrol Duratec L	Castrol Duratec L Castrol Duratec MX	Castrol Duratec MX	
	Shell Mysella LA 40 <b>Shell Mysella XL 40*</b>	Shell Mysella MA 40	Shell Mysella MA 40	Shell Mysella LA 40 Shell Mysella XL
	<b>Petro Canada Sentron LD 5000*</b>			
	Chevron Geotex LA SAE 40 Chevron HDAX Low Ash Gas Engine Oil SAE 40	Chevron HDAX LFG Gas Engine Oil SAE 40	Chevron HDAX LFG Gas Engine Oil SAE 40	Chevron HDAX Low Ash Gas Engine Oil SAE 40
	Texaco Geotex LA SAE 40 Texaco HDAX Low Ash Gas Engine Oil SAE 40	Texaco Geotex LF SAE 40 Texaco HDAX LFG SAE 40	Texaco HDAX LFG SAE 40	Texaco HDAX Low Ash Gas Engine Oil SAE 40
	Caltex Geotex LA SAE 40 Caltex HDAX Low Ash Gas Engine Oil SAE 40	Caltex Geotex LF SAE 40 Caltex HDAX LFG Gas Engine Oil SAE 40	Caltex HDAX LFG Gas Engine Oil SAE 40	Caltex HDAX Low Ash Gas Engine Oil SAE 40

\*\* **Mobil Pegasus 1005** is suited for prolonged oil-change intervals. Can be assessed following increased oil-limit values (see TI 1000-0099B).

\* **Shell Mysella XL SAE 40** is suited for prolonged oil-change intervals.

\* **Petro Canada Sentron LD 5000** is suited for prolonged oil-change intervals.



with catalytic converter  
for formaldehyde  
conversion included in  
GE Jenbacher scope of  
supply

	Class A fuel gas	Class B fuel gas	Class C fuel gas	
		Total Nateria ML 406		
	Fuchs Titan Ganymet LA	Fuchs Titan Ganymet plus	Fuchs Titan Ganymet	
	Cepsa Troncoil Gas 40			
		OMV Gas HD 40		
		Agip AUTOL BGJ 40		
	Q8 Mahler G4	Q8 Mahler HA	Q8 Mahler HA	
	Roloil Mogas G4	Roloil Mogas AC-40	Roloil Mogas AC-40	
	Roloil Mahler G4	Roloil Mahler HA	Roloil Mahler HA	
		Addinol MG 40 extra plus		
		Nils Burian SAE 40		



with catalytic converter  
for formaldehyde  
conversion included in  
GE Jenbacher scope of  
supply

	Class A fuel gas	Class B fuel gas	Class C fuel gas	
	NOC Eneos (M) 40			
	Tectrol Methaflexx NG	Tectrol Methaflexx HC plus	Tectrol Methaflexx D	
		SRS Mihagrun 40		
	Valvoline GEO LA 40			



#### 4. Lubricating oil requirements for GE Jenbacher type 4 engines:

additives suitable for spark-ignition gas operation  
Release procedure successfully completed in acc. with TI 1000-0099A

##### Selection overview

	Class A fuel gas	Class B fuel gas	Class C fuel gas	with catalytic converter for formaldehyde conversion included in GE Jenbacher scope of supply
	Mobil Pegasus 705 Mobil Pegasus 805 Mobil Pegasus 1005	Mobil Pegasus 705 Mobil Pegasus 805	Mobil Pegasus SR Mobil Pegasus 605	Mobil Pegasus 705
	BP Energas NGL	BP Energas NGL		
	Castrol Duratec L	Castrol Duratec L		
	Shell Mysella LA 40			Shell Mysella LA 40
	NOC Eneos (M) 40			
	Q8 Mahler G4	Q8 Mahler G4		
	Roloil Mogas G4	Roloil Mogas G4		
	Roloil Mahler G4	Roloil Mahler G4		
	Valvoline GEO LA 40			



## 5. Lubricating oil requirements for GE Jenbacher type 6 engines:

SAE 40

additives suitable for spark-ignition gas operation

Release procedure successfully completed in acc. with TI 1000-0099A

### Selection overview

	Class A fuel gas	Class B fuel gas	Class C fuel gas	with catalytic converter for formaldehyde conversion included in GE Jenbacher scope of supply
	Mobil Pegasus 705 Mobil Pegasus 805 Mobil Pegasus 1005	Mobil Pegasus 705 Mobil Pegasus 805	Mobil Pegasus SR Mobil Pegasus 605	Mobil Pegasus 705
	BP Energas NGL	BP Energas NGL	BP Energas NGL	
	Castrol Duratec L	Castrol Duratec L	Castrol Duratec L	
	Shell Mysella LA 40 Shell Mysella XL			Shell Mysella LA 40
	Petro Canada Sentron LD 5000			
	Chevron HDAX Low Ash Gas Engine Oil SAE 40			Chevron HDAX Low Ash Gas Engine Oil SAE 40
	Texaco HDAX Low Ash Gas Engine Oil SAE 40			Texaco HDAX Low Ash Gas Engine Oil SAE 40
	Caltex HDAX Low Ash Gas Engine Oil SAE 40			Caltex HDAX Low Ash Gas Engine Oil SAE 40



with catalytic converter  
for formaldehyde  
conversion included in GE  
Jenbacher scope of  
supply

	Class A fuel gas	Class B fuel gas	Class C fuel gas	
	Q8 Mahler G4	Q8 Mahler G4		
	Roloil Mogas G4	Roloil Mogas G4		
	Roloil Mahler G4	Roloil Mahler G4		