



# CITGO® Pacemaker® Gas Engine Oil LFG LA 40

## OVERVIEW



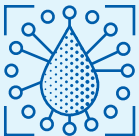
- A superior low ash, low phosphorus gas engine oil, designed for high-output, 4-cycle natural gas engines operating on landfill and digester gas.
- Demonstrated in field service to be capable of significantly extending oil drain intervals while minimizing the negative effects of ash deposits on sensitive engine components.

## FEATURES & BENEFITS

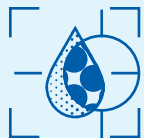


- Specifically designed for high brake mean effective pressure (BMEP) engines.
- Optimized low ash formula minimizes combustion chamber deposits to maintain the power output of high BMEP engines for reduced maintenance and longer engine life.
- Specially formulated with modern chemistry to neutralize combustion acids from landfill gas and digester gas, including total organic halide as chloride (TOHCl) and H<sub>2</sub>S at moderate levels.
- Controls deposits and minimizes wear of pistons, rings and liners.
- Significantly extends drain intervals
- Excellent base retention.
- Strong corrosion resistance.

## APPLICATIONS



- Recommended for a wide range of engines that operate on landfill and digester gas, including engines manufactured by Caterpillar, Waukesha, GE Jenbacher, Deutz, and Cummins.
- Approved by GE Jenbacher for use in type 2, 3, 4, and 6 engines (fuel classes B and C); appears in Technical Instruction TA 1000-1109.

**PROPERTIES****Typical Properties for CITGO Pacemaker Gas Engine Oil LFG LA 40:**

<b>SAE Grade</b>	<b>40</b>
Material Code	632051001
Gravity, ASTM D4052, °API	29.3
Density, lb/gal at 60°F	7.33
Flash Point, ASTM D92, COC, °F (°C)	525 (274)
Viscosity ASTM D445	
cSt at 40°C	123
cSt at 100°C	13.5
Viscosity Index, ASTM D2270	105
Pour Point ASTM D97, °F (°C)	-11 (-24)
Color, ASTM D1500	L5.0
Carbon Residue, % (base stock)	0.02
Sulfated Ash, ASTM D874, %	0.55
Total Base No., ASTM D2896, mg KOH/g	5
Total Acid No., ASTM D664, mg KOH/g	1.16

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