

# CITGO PACEMAKER® GAS ENGINE OIL 1700 SERIES

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Date 06/15

**DESCRIPTION:** CITGO Pacemaker Gas Engine Oil 1700 Series oils are superior new generation low ash, low phosphorus stationary natural gas engine oils with an advanced additive package that deliver a superior level of cleanliness and excellent wear protection with a low ash formula that complies with manufacturers' warranties and non selective catalytic converter requirements.

Formulated with latest generation additive technology and highest quality Group II base stocks. CITGO Pacemaker Gas Engine Oil 1700 Series oils offer outstanding performance.

In CITGO rigorous field testing, these oils have shown superior protection against nitration and oxidation, plus resistance to viscosity increase for longer drain intervals.

- QUALITIES:**
- Contain special dispersants and detergents help ensure a cleaner, longer running engine.
  - Control deposits and minimize wear of pistons, rings, and liners.
  - Retain TBN to neutralize combustion acids from sour gas.
  - Contain specialized antioxidant/base oil combination effectively inhibits oxidation and nitration in severe service.
  - Control sludge that thickens the oil, plugs filters and causes excessive foaming.
  - Minimize valve recession to provide longer head life.

**APPLICATIONS:** CITGO Pacemaker Gas Engine Oil 1700 Series oils are low ash oils suitable for a wide range of engines operating on virtually any variation of natural or synthetic gas, gas from digester or landfill sources or fuels containing low levels of sulfur and chlorofluorocarbons (CFC). **Note:** In high CFC/sour gas applications, an oil with a higher base reserve may be required.

These oils are recommended for high and medium speed 4-cycle engines manufactured by Caterpillar, Waukesha, Superior, Cooper-Bessemer, Cummins, Dresser-Rand (Categories I, II and III), as well as low-speed engines manufactured by Cooper Bessemer and Worthington C4-Cycle).

CITGO Pacemaker Gas Engine Oil 1740LP is a specially formulated SAE 40 grade product that exhibits superior low temperature properties, compared with other monograde oils. This low pour product is particularly well suited for applications where improved low temperature fluidity is needed, but a monograde oil is recommended by the engine manufacturer.

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Date 06/15 - (Continued)

**TYPICAL PROPERTIES:**

<b>CITGO PACEMAKER® GAS ENGINE OIL 1700 SERIES</b>				
<b>Product Name</b>	<b>1715</b>	<b>1730</b>	<b>1740</b>	<b>1740 LP</b>
<b>SAE Grade</b>	<b>15W-40</b>	<b>30</b>	<b>40</b>	<b>40</b>
Material Code	632075001	632073001	632074001	632076001
Gravity, ASTM D 4052, °API	30.4	29.6	29.9	29.6
Pounds Per Gallon	7.28	7.32	7.30	7.32
Flash Point, COC, ASTM D 92, °F (°C)	446 (230)	466 (241)	473 (245)	480 (249)
Viscosity, ASTM D 445, cSt at 40°C	102.7	92	128.8	130.4
cSt at 100°C	13.7	11.0	13.6	13.7
Viscosity Index, ASTM D 2270	133	104	101	101
Pour Point, ASTM D 97, °F (°C)	-22 (-30)	-16 (-27)	+10 (-12)	-26 (-33)
Color, ASTM D 1500	L6.0	L5.0	L5.0	L5.0
Carbon Residue, % (base stock)	0.02	0.02	0.02	0.02
Sulfated Ash, ASTM D 874, m%	0.45	0.45	0.45	0.45
Total Base No., ASTM D 2896, mg KOH/g	5.0	5.0	5.0	5.0
Total Acid No., ASTM D 664, mg KOH/g	0.75	0.66	0.67	0.68
Phosphorous, ppm	280	280	280	280

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