## CITGO PACEMAKER® GAS ENGINE OIL 1900 XL SERIES



- **DESCRIPTION:** CITGO Pacemaker Gas Engine Oil (GEO) 1900 XL series are next-generation, premium-performance low ash and low phosphorus lubricants for stoichiometric and lean-burn stationary natural gas engines. CITGO Pacemaker GEO 1900 XL series are designed for highly loaded 4-cycle natural gas engines operating under severe conditions and provides premium performance over older technology lubricants in high nitration conditions typically found in stoichiometric engine operation.
  - **QUALITIES:** Exceptional resistance to oxidation and nitration
    - Extended oil drain intervals capability (up to two times vs. other premium oils operating in severe conditions) helps maximize production and lowers operating cost through less down time, and reduced lubrication cost
    - · Exceptional deposit control and protection against piston scuffing and ring and liner wear
    - TBN retention to neutralize combustion acids from sour gas
    - Minimized valve recession for longer head life
    - Improved TAN control
    - Catalyst compatible

**APPLICATIONS:** CITGO Pacemaker GEO 1900 XL series low ash lubricants meet rigorous demands of modern natural gas engines operating in a variety of natural gas fuel qualities.

Cummins

Recommended for high and medium speed 4-cycle engines manufactured by:

Caterpillar

- Worthington (low-speed engines)
- Cooper-Bessemer (low-speed engines)

- WaukeshaSuperior
- Jenbacher
- Wärtsilä

• Dresser-Rand (Categories I, II, III)

Industrial Gas Engine Oils

(Continued)

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## **TYPICAL PROPERTIES:**

| CITGO PACEMAKER® GAS ENGINE OIL 1900 XL SERIES  |   |  |
|---|---|--|
| Product Name  | 1930 XL   | 1940 XL  |
| SAE Grade   | 30  | 40   |
| Material Code   | 632090001   | 632085001  |
| Gravity, ASTM D4052, °API<br>Pounds Per Gallon<br>Viscosity, ASTM D445, cSt at 40°C<br>cSt at 100°C<br>Viscosity Index, ASTM D2270<br>Pour Point, ASTM D97, °F (°C)<br>Color, ASTM D1500<br>Sulfated Ash, ASTM D874, m%<br>Total Base No., ASTM D2896, mg KOH/g | 29.0<br>7.34<br>98<br>11.5<br>105<br>-33 (-36)<br>L5.0<br>0.5<br>5.09 | 28.5<br>7.37<br>126.7<br>13.6<br>103<br>-33 (-36)<br>L5.0<br>0.5<br>5.09 |
| Total Acid No., ASTM D2896, mg KOH/g<br>Phosphorus, ppm   | 5.09<br>0.82<br>280   | 5.09<br>0.82<br>280  |

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Values shown are typical values only and do not constitute a specification. The information contained herein is subject to change without notice.

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