

CITGO PACEMAKER® GAS ENGINE OIL
700 SERIES



Date 09/13

DESCRIPTION: CITGO Pacemaker Gas Engine Oil 700 Series oils are medium ash type oils formulated from high VI solvent refined base stock and selected additives to provide the high level and type of detergency and dispersancy required for deposit control in high speed, severe service engines. The additive package contains zinc for a high level of antiwear performance plus additional antioxidant for improved oxidation and nitration stability and resistance to thermal breakdown needed for long service life.

- QUALITIES:**
- Provide excellent valve face and seat lubrication.
 - Improved engine cleanliness and sludge control performance in heavy-duty, high temperature and continuous engine operation.
 - Improved oxidation and nitration resistance.
 - Better wear protection, especially in valve train, and better protection from ring and valve sticking.
 - Higher TBN will offer greater protection against acid increase and corrosive wear which means longer oil life.

APPLICATIONS: CITGO Pacemaker Gas Engine Oil 700 Series oils are recommended for naturally-aspirated to highly turbocharged, medium and high speed, high output four-cycle engines in field gathering service. They are also recommended for engines in cogeneration service, digester gas-fueled, dual-fueled (i.e. diesel/natural gas) and diesel-fueled service.

CITGO Pacemaker Gas Engine Oil 700 Series oils are recommended for use in lean/clean burn engines. They are **NOT** recommended for engines equipped with catalytic converters.

CITGO Pacemaker Gas Engine Oil 700 Series oils can also be used to lubricate the compressor cylinders in natural gas service.

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TYPICAL PROPERTIES:

CITGO PACEMAKER® GAS ENGINE OIL 700 SERIES

Product Name	715	740
SAE Grade	15W-40	40
Material Code	632033001	632034001
Gravity, ASTM D 4052, °API	30.1	28.9
Pounds Per Gallon	7.29	7.35
Flash Point, COC, ASTM D 92, °F (°C), Min.	460 (238)	453 (234)
Viscosity, ASTM D 445, cSt at 40°C	99.6	129.3
cSt at 100°C	13.9	13.7
Viscosity Index, ASTM D 2270	141	102
Pour Point, ASTM D 97, °F (°C)	-27 (-33)	+5 (-15)
Color, ASTM D 1500	L6.5	L6.5
Carbon Residue, % (base stock)	0.16	0.16
Sulfated Ash, ASTM D 874, m%	0.90	0.90
Total Acid No., ASTM D 664	1.79	1.65
Total Base No., ASTM D 2896	6.5	6.5
Phosphorus, m%	0.06	0.06
Oxidation Inhibitor	Yes	Yes
Corrosion Inhibitor	Yes	Yes
Detergent-Dispersant	Yes	Yes
Metal Deactivator	Yes	Yes
Antiwear	Yes	Yes