

CITGO PACEMAKER® GAS ENGINE OIL
800 SERIES

Date 10/13

DESCRIPTION: CITGO Pacemaker Gas Engine Oil 800 Series oils are low ash/low phosphorus lubricants. These oils provide maximum resistance to oxidation, corrosion and foaming, and excellent antiwear performance.

- QUALITIES:**
- Meets performance requirements of Service Category CC.
 - Employ the use of high viscosity index base stocks with low carbon residue to minimize carbon and varnish formation and maximize oil oxidation life.
 - Contain no bright stock.
 - Promote reduced spark plug deposits.
 - Contain special detergent-dispersant additive package for excellent cleaning action to keep piston rings free in their grooves, thereby extending engine overhaul periods and engine life.
 - Offer excellent resistance to oil nitration.
 - Contain low phosphorous level — suitable for use with catalytic converter systems.
 - Provide lower oil consumption and reduced maintenance costs.
 - Are suitable for use in compressor cylinder lubrication.
 - Provide excellent protection against corrosion of vital engine and compressor components.

APPLICATIONS: CITGO Pacemaker Gas Engine Oil 800 Series oils are recommended primarily for use in the lubrication of engine crankcases, power cylinders of spark-ignited 4-cycle natural gas engines and compressor cylinders.

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. Their low ash level/low phosphorous formulation is recommended for naturally aspirated and turbocharged engines.

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Date 10/13 - (Continued)

TYPICAL PROPERTIES:

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Product Name	815	830	840
SAE Grade	15W-40	30	40
Material Code	632026001	632027001	632028001
Gravity, ASTM D 4052, °API	30.6	29.3	29.3
Pounds Per Gallon	7.27	7.33	7.33
Flash Point, COC, ASTM D 92, °F (°C)	446 (230)	466 (241)	511 (266)
Viscosity, ASTM D 445, cSt at 40°C	96.7	89.2	125.1
cSt at 100°C	13.6	10.9	13.3
Viscosity Index, ASTM D 2270	141	107	101
Pour Point, ASTM D 97, °F (°C)	-27 (-33)	-27 (-33)	+5 (-15)
Color, ASTM D 1500	L3.5	L3.0	L3.0
Carbon Residue, % (base stock)	0.02	0.02	0.02
Sulfated Ash, ASTM D 874, m%	0.46	0.46	0.46
Total Acid No., ASTM D 664, mg KOH/g	0.60	0.63	0.52
Total Base No., ASTM D 2896, mg KOH/g	3.5	3.5	3.5
Phosphorus, ppm	280	280	280