

CITGO PACEMAKER® GAS ENGINE OIL
1200 SERIES



Date 09/13

- DESCRIPTION:** CITGO Pacemaker Gas Engine Oil 1200 Series oils are premium quality, ashless gas engine oils fortified with a latest generation ashless dispersant additive package in combination with corrosion, oxidation and foam inhibitors, and a premium antiwear additive package. They provide excellent performance in 2-cycle engines and also provide superior service in many 4-cycle engines.
- QUALITIES:**
- The use of high viscosity index base stocks with low carbon residue minimizes carbon and varnish formation and serves to provide maximum oxidation resistance.
 - Contain no bright stock.
 - Provide superior protection against ring belt and port deposits in 2-cycle engines.
 - Use ashless formulation minimizes spark plug fouling.
 - Are highly dispersant, which provides excellent engine cleanliness. By keeping piston rings free in their grooves, extended engine overhaul periods and engine life can be achieved.
 - Offer excellent resistance to oil nitration and oxidation.
 - Promote lower oil consumption, fewer deposits and reduced maintenance costs.
 - Provide superior corrosion protection to vital engine and compressor components.
- APPLICATIONS:** CITGO Pacemaker Gas Engine Oil 1200 Series oils provide superior antiwear protection, varnish and deposit control in naturally aspirated and turbocharged 2-cycle and 4-cycle gas engines.
- These products meet the performance characteristics required for Dresser-Rand Categories I and II gas engines as well as other 2- and 4-cycle units of major equipment manufacturers requiring ashless type oils.
- These premium qualities make CITGO Pacemaker Gas Engine Oil 1200 Series the best choice for universal ashless gas engine oils in a wide variety of low- and high-speed 2- and 4-cycle engines.

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TYPICAL PROPERTIES:

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Product Name	1215	1230	1240
SAE Grade	15W-40	30	40
Material Code	632037001	632035001	632036001
Gravity, ASTM D 4052, °API	30.8	30.0	29.6
Pounds Per Gallon	7.26	7.3	7.31
Flash Point, COC, ASTM D 92, °F (°C), Min.	482 (250)	496 (258)	543 (284)
Fire Point, COC, ASTM D 92, °F (°C), Min.	514 (268)	518 (270)	576 (302)
Viscosity, ASTM D 445, cSt at 40°C	98.2	96.7	124.6
cSt at 100°C	13.7	11.2	13.2
Viscosity Index, ASTM D 2270	141	101	100
Pour Point, ASTM D 97, °F (°C)	-17 (-27)	+15 (-9)	+10 (-12)
Color, ASTM D 1500	L2.0	L2.5	L3.0
Carbon Residue, % (base stock)	0.02	0.02	0.02
Total Base No., ASTM D 2896, mg KOH/g	1.2	1.2	1.2
Phosphorus, ppm	500	500	600
Oxidation Inhibitor	Yes	Yes	Yes
Corrosion Inhibitor	Yes	Yes	Yes
Dispersant	Yes	Yes	Yes
Antiscuff/Antiwear	Yes	Yes	Yes
Total Acid No., ASTM D 664, mg KOH/g	0.61	0.45	0.69