

**CITGO PACEMAKER® GAS ENGINE
OIL 1200 SERIES**

Date 01/06

- 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, solvent refined 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.
- CITGO Pacemaker Gas Engine Oil 1240 SSL contains a synergistic combination of high viscosity index, solvent refined base stocks, polyalphaolefin, and esters. This combination of base stocks provides increased levels of anti-wear protections and system cleanliness.

TYPICAL PROPERTIES:**CITGO PACEMAKER® GAS ENGINE OIL 1200 SERIES**

Product Name SAE Grade	1215 15W-40	1230 30	1240 40	1240 SSL Semi Syn 40
Material Code	632037001	632035001	632036001	632094001
Gravity, ASTM D 4052, °API	29.5	28.6	28.7	27.2
Pounds Per Gallon	7.3	7.4	7.4	7.4
Flash Point, COC, ASTM D 92, °F (°C), Min.	482 (250)	496 (258)	543 (284)	525 (274)
Fire Point, COC, ASTM D 92, °F (°C), Min.	514 (268)	518 (270)	576 (302)	565 (296)
Viscosity, ASTM D 445, cSt at 40°C	110	96	132	124
cSt at 100°C	13.8	10.9	13.5	13.5
ASTM D 2161, SUS at 100°F	567	500	689	646
SUS at 210°F	75	63	73	74
Viscosity Index, ASTM D 2270	125	97	97	104
Pour Point, ASTM D 97, °F (°C)	-17 (-27)	+15 (-9)	+10 (-12)	+5 (-15)
Color, ASTM D 1500	2.0	3.0	3.0	L3.0
Carbon Residue, % (base stock)	0.02	0.02	0.02	0.02
Total Base No., ASTM D 2896	1.2	1.2	1.2	1.5
Phosphorus, ppm	500	500	500	500
Oxidation Inhibitor	Yes	Yes	Yes	Yes
Corrosion Inhibitor	Yes	Yes	Yes	Yes
Dispersant	Yes	Yes	Yes	Yes
Antiscuff/Antiwear	Yes	Yes	Yes	Yes