CITGO[®] Pacemaker[®] Gas Engine Oil 1000 Series



	 Premium quality, ashless stationary natural gas engine oils fortified with a latest-generation dispersant additive package in combination with corrosion, oxidation, and foam inhibitors, and a premium antiwear additive package. 1000 Series has a history of outstanding performance in gas processing, gas transmission, and other applications calling for a high-quality, ashless natural gas engine oil. Available in a single viscosity grade at the midpoint between SAE 30 and SAE 40 grades, SAE 40, and SAE 15W-40
FEATURES & BENEFITS	 Use of high viscosity index base stocks with low carbon residue minimizes carbon and varnish formation and maximizes oil oxidation life. Contain no bright stock. Provide superior protection against ring belt and port deposits in 2-cycle engines. Ashless formulation provides maximum protection against spark plug fouling. Ashless dispersant system provides excellent cleaning action to keep piston rings free in their grooves, extending overhaul periods and engine life. 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	 Recommended for naturally aspirated and turbocharged 2-cycle stationary natural gas engines. CITGO Pacemaker Gas Engine Oil 1035 and 1040 are specially formulated to provide enhanced low temperature properties. Excellent performance where low temperature fluidity is needed but a monograde viscosity is preferred. Recommended for use in two-stroke engines such as Ajax, Clark, Dresser-Rand, Cooper-Bessemer, Worthington, and Fairbanks-Morse, as well as other gas engine manufacturers requiring ashless engine oils. Can be used in compressor cylinder lubrication. Consult equipment manufacturer for proper lubricant selection.

CITGO Petroleum Corporation Houston, Texas Customer Service Line 1-800-331-4068 LubesCS@CITGO.com Product Answer Line 1-800-248-4684 lubeshelp@CITGO.com

Online at www.CITGOLubes.com

Manufactured in USA

C 10069

PROPERTIES



Typical Properties for CITGO Pacemaker Gas Engine Oil 1000 Series:

Product Name	1015	1035	1040
SAE Grade	15W-40	30/40	40
Material Code	632210001	632032001	632057001
Gravity, ASTM D4052, °API	31.6	30.8	30.8
Pounds Per Gallon	7.23	7.26	7.26
Flash Point, COC, ASTM D92, °F (°C), Min.	457 (236)	460 (238)	522 (272)
Viscosity ASTM D445			
cSt at 40°C	106	113	113
cSt at 100°C	13.9	12.9	13.5
Viscosity Index, ASTM D2270	129	107	108
Pour Point, ASTM D97, °F (°C)	-38 (-39)	-27 (-33)	-27(-33)
Color, ASTM D1500	L1.0	L1.0	L1.0
Total Acid No., ASTM D664, mg KOH/g	0.5	0.5	0.5
Total Base No., ASTM D2896, mg KOH/g	1.0	1.0	1.0
Oxidation Inhibitor	Yes	Yes	Yes
Corrosion Inhibitor	Yes	Yes	Yes
Dispersant	Yes	Yes	Yes
Antiscuff/Antiwear	Yes	Yes	Yes

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