



CITGO PACEMAKER® ST-32

Date 1/09

DESCRIPTION: CITGO Pacemaker ST-32 is a synthetic gas turbine lubricant blended with polyalphaolefin (PAO) base stocks. It is formulated to meet the demands of high output stationary industrial gas turbines. High quality synthetic base oils are blended with carefully selected additives to impart antiwear, high temperature oxidation and corrosion inhibition, as well as rust protection. CITGO Pacemaker ST-32 exhibits exceptional low temperature performance as well – permitting superior fluidity during cold startups and cold weather operation. It is completely miscible and is compatible with petroleum based lubricants and components.

- QUALITIES:**
- Exceptionally good low temperature fluidity:
Reduced wear and lowered power consumption during startup
 - High viscosity index:
Excellent temperature/viscosity performance over a wide temperature range
 - High load carrying and antiwear characteristics:
Longer component life than mineral oil products
 - Complete compatibility with petroleum based lubricants and system components such as seals, paints, gaskets and hoses; thus, no changeover concerns.

APPLICATIONS: CITGO Pacemaker ST-32 meets the specifications of:
Allison Gas Turbine EMS-45
Caterpillar ES 9-224
Cooper Industries
General Electric Company

Note: Not intended for aviation applications.

TYPICAL PROPERTIES:

CITGO PACEMAKER® ST-32

Material Code	632515001
ISO Viscosity Grade	32
Specific Gravity, 60°/60°F	0.844
Density, lbs/gal	7.03
Viscosity, ASTM D 445, cSt at 40°C	30.46
cSt at 100°C	5.83
Viscosity Index, ASTM D 2270	138
Flash Point, ASTM D 92, °F (°C)	507 (264)
Pour Point, ASTM D 97, °F (°C)	-71 (-57)
Copper Corrosion, ASTM D 130	1A
Rust Protection, ASTM D 665	
DI Water	Pass
Salt Water	Pass
Foaming Tendency, Seq. I, II, III	Pass
Neutralization Number	0.1
Four Ball Wear, ASTM D 4172, 40kg, mm	0.36