PRODUCT INFORMATION SHEET

CITGO® Pacemaker® ST-32

OVERVIEW

- A synthetic gas turbine lubricant formulated to meet the demands of high-output stationary industrial gas turbines.
- High-quality synthetic base oils and carefully selected additives impart anti-wear properties, high temperature oxidation and corrosion inhibition, and rust protection.
- Exceptional low-temperature performance, with superior fluidity during cold startups and cold weather operation.

FEATURES & BENEFITS

- Exceptionally good low-temperature fluidity provides reduced wear and lowered power consumption during startup.
- High viscosity index provides excellent viscosity performance over a wide temperature range.
- High load-carrying and anti-wear characteristics for longer component life than mineral oil products.
- Miscibility and compatibility with petroleum-based lubricants and system components such as seals, paints, gaskets, and hoses.

APPLICATIONS

- Recommended for equipment requiring the following specifications:
  - Fives Cincinnati P-38
  - DIN 51515 Part 1
  - DIN 51515 Part 2
  - British Standard BS 489
  - General Electric GEK 46506D
  - General Electric GEK 32568K
  - Alstom HTGD 90117
  - Solar ES 9-224Y
  - Siemens TLV 901304
  - Siemens TLV 901305

Note: Not intended for aviation applications.

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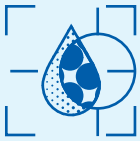
Manufactured in USA

C 10092

PROPERTIES



Typical Properties for CITGO Pacemaker ST-32:

ISO Viscosity Grade	**32**
Material Code	**632515001**
Specific Gravity, 60°/60°F	0.853
Density, lb/gal at 60°F	7.10
Viscosity, ASTM D445	
cSt at 40°C	32.4
cSt at 100°C	6.04
Viscosity Index, ASTM D2270	136
Flash Point, COC, ASTM D92 °F (°C)	486 (252)
Pour Point, ASTM D97, °F (°C)	-71 (-57)
Copper Corrosion, ASTM D130	1A
Rust Test, ASTM D665[1] A,B	Pass
Foam Test, ASTM D892[2], Seq. I, II, III	Pass
Neutralization No., ASTM D664	0.1
Four Ball Wear, ASTM D4172, 40kg, mm	0.46

Notes:

(1) Procedure A (distilled water) and Procedure B (synthetic sea water)

(2) 50 ml. max. at end of blowing period. No foam after 10 minutes setting.