SHELL TURBO FLUID SG 32

Synthetic industrial gas turbine lubricant

Product Description

Shell Turbo SG Fluid 32 is a synthetic polyalphaolefin based fluid formulated to meet the demands of high output stationary industrial gas turbines. It is blended with carefully selected additives to impart anti-wear, high temperature oxidation and corrosion inhibition, as well as rust protection.

Applications

- large heavy duty industrial gas turbines
- smaller gas turbines, including aircraft-type gas turbines used in stationary industrial application where an ISO 32 viscosity grade is recommended

Features/Benefits

- good low temperature fluidity resulting in low wear and low power consumption during startup
- high viscosity index and low pour points resulting in performance over a wide temperature range
- high load carrying and anti-wear characteristics
- excellent oxidation stability
- compatibility with petroleum based lubricants and seals, paints, gaskets, and hoses normally used with petroleum based lubricants

Approvals

- Allison Gas Turbine Division EMS-45
- Cooper Industries Gas Turbines
- General Electric Company Gas Turbines
- Solar Turbines ES 9-224
- Westinghouse Gas Turbines

Typical Properties of Shell Turbo SG 32		
	Test Method	
Product Code		65652
Specific Gravity, 15.6°C	D 1298	0.860
Viscosity:		
@ 40°C, cSt	D 445	32.0
@ 100°C, cSt	D 445	5.65
Viscosity Index	D 2270	130
Flash Point, COC, °F	D 92	470
Fire Point, COC, °F	D 92	525
Autoignition, °F	D 659	730
Pour Point, °F	D 97	<-75
Copper Corrosion	D 130	1b
Acid Number, mg KOH/g	D 974	0.10
Rust Protection (salt water)	D 665B	Pass
Foaming Tendency, vol/collapse		
Seq. I, ml	D 892	0/0
Seq. II, ml	D 892	0/0
Seq. III, ml	D 892	0/0
Four-Ball Wear , 75°C, 120 RPM, 40 Kg,1hr, mm^2		0.45
Rotating Bomb Oxidation Test, hrs	D 2272	1980
Oxidation-Corrosion, 347°F, 72 hrs	FTM 5308	
Viscosity Change, %	Std. 791	3.9
TAN Change, mg KOH		0.10
Metal Weight Change, mg/cm^2		
Copper		0.08
Iron		0.04
Silver		0.00
Magnesium		0.00
Water, ppm	D 95	<100

Handling & Safety Information:

For information on the safe handling and use of this product, refer to its Material Safety Data Sheet **http://www.shell-lubricants.com/msds/.** If you are a Shell Distributor, please call **1+800-468-6457** for all of your service needs. All other customers, please **call 1+800-840-5737** for all of your service needs. Information is also available on the World Wide Web: **http://www.shell-lubricants.com/.**

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