Gazpromneft Turbine Oil F Synth EP - 32, 46


Steam & gas turbines


Excellent anti-oxidation stability



Extreme Pressure properties



Demulsibility


Foam stability

Gazpromneft Turbine Oil F Synth EP - 32, 46 is a series of advanced turbine oils with extreme pressure additives, designed for the lubrication of modern gas turbines and combined cycle gas turbines. The oils are used in high-speed gas turbines and CCGTs, including geared turbine systems. The use of high-efficient hydrotreated mineral base oils in combination with carefully selected additive package allows using these oils for lubrication of bearings and gearboxes of heat stressed turbines according to DIN 51515 Part 2. Operation with an extended drain interval is possible compared to mineral-based oils.

Characteristics/Advantages/Potential benefits

- High extreme pressure characteristics → reduced wear and the likelihood of destruction of working surfaces of gears and bearings in gearboxes → maximum run life of the units
- Excellent oxidation stability → possibility of extended lubricant drain interval compared to mineral-based oils → reduced maintenance costs
- Low tendency to form deposits → minimizing the formation of varnishes on thrust bearings and sludge in oil tanks → reducing the likelihood of unscheduled equipment shutdowns
- Excellent demulsibility → no persistent oil-in-water emulsions, clogging filters → maintaining lubrication system performance and equipment life
- Excellent anti-foam properties → minimization of foam formation and continuity of oil flow to friction units → reduction of the likelihood of unit overheating
- Excellent air release properties → fast separation of air from oil ensures stable lubricating film → maintenance equipment life
- Excellent viscosity-temperature characteristics → maintenance of the bearing capacity of the oil film at increased temperatures → reliable operation of the units
- High corrosion protection → oil effectively protects turbine parts from effects of oil oxidation products → reduced spare part costs

Applications

- Highly loaded gas turbines and CCGTs of geared turbine systems at CHPPs and SDPPs.
- Gas turbines of geared turbine systems of compressor units and power units at oil and gas industry facilities.

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The above data are typical for the products currently available. Due to ongoing research and development, the information contained in the document is subject to change. Information on the safe use of the product is contained in the Safety Data Sheet. More detailed information can be obtained from the company's technical specialists. E-mail: 365@gazpromneft-sm.ru. 05/2026

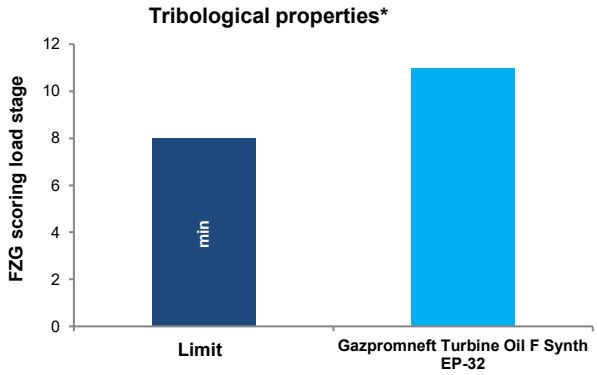
Specifications	ISO Viscosity Grade	
	32	46
DIN 51515 Part 1, DIN 51515 Part 2	✓	✓
ISO 8068 L-TSA & L-TGA, L-TSE & L-TGE	✓	✓
General Electric GEK 101941A, GEK 107395A, GEK 121608, GEK 32568K	✓	
Siemens TLV901304, Siemens TLV901305	✓✓	✓✓
Siemens MAT 812109		✓
Brush	✓	
ABB	✓	✓
Alstom HTGD 90117 AD	✓	✓
Solar ES 9224Y Class II	✓	
JSC “Power Machines”		✓

*✓-performance level, * ✓✓- approval

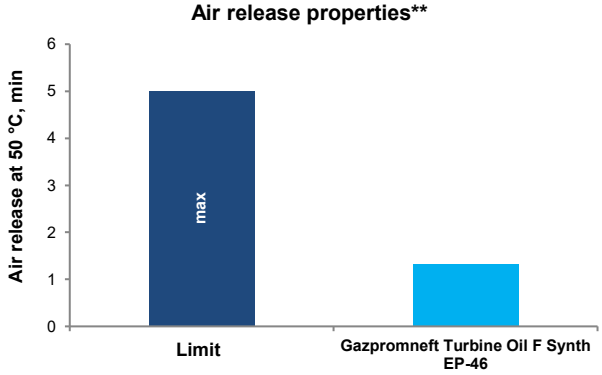
Typical physical and chemical characteristics

Parameters	Method	ISO Viscosity Grade	
		32	46
Kinematic viscosity, mm^2/s: at 40 °C at 100 °C	ASTM D445	 32.6 5.8	 46.1 7.3
Viscosity index	ASTM D2270	122	121
Flash Point (COC), °C	ASTM D92	242	253
Pour point, °C	GOST 20287	-40	-36
Acid number, mg KOH/g	GOST 11362	0.06	0.06
Density at 20 °C, kg/m^3	ASTM D 4052	842	847

Oils of the Gazpromneft Turbine Oil F Synth EP series demonstrate high performance in tests in comparison with the normal values prescribed by international standards:



The Gazpromneft Turbine Oil F Synth EP series of oils has good tribological properties that ensure the maximum overhaul life of gearboxes.



The Gazpromneft Turbine Oil F Synth EP series of oils has a high air release capability, maintaining the stability of the oil film and reducing the likelihood of unscheduled downtime of units.

*DIN 51354 Test; **ASTM D 3427 Test

The company’s management system is certified in accordance with the international standards

ISO 9001 ISO 14001 ISO 45001

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