

# TP-22S Grade 1

## Turbine oil

### DESCRIPTION

The oil is produced for lubrication and cooling of bearings and other mechanisms in high-speed steam turbines and is also suitable for hydraulic and fluid sealing applications. The product is recommended for use in turbine and centrifugal compressors.

### BENEFITS

- High purity mineral base stocks and progressive additive system deliver high performance and high resistance to oxidation, residues and corrosion
- Good demulsifying properties
- Outperforms similar Grade 2 oil by oxidation stability

### SPECIFICATIONS AND APPROVALS

Approved by TURBOATOM.

Recommended by All-Russian Scientific Research Institute of Oil Refining (VNIINP, JSC); VTI, JSC; Gazprom VNIIGAZ, JSC; and RAO UES of Russia

### TYPICAL PROPERTIES

Viscosity, <ul style="list-style-type: none"> <li>• cSt @ 50°C</li> <li>• cSt @ 40°C</li> </ul>	20.5 29.8
VI	95
Flash Point COC, °C	220
Pour Point, °C	-16
Acid Number, mg KOH/g	0.05
Sulphur Content, % mass	0.25
Oxidation stability after 16h @ 150°C and oxygen consumption 3 dm <sup>3</sup> /h: <ul style="list-style-type: none"> <li>• Sludge, %</li> <li>• Total acid</li> <li>• Volatility acids, mg KOH/g</li> </ul>	0.01 0.05 0.02
Demulsibility, sec.	110
Density @ 15°C, g/cm <sup>3</sup>	0.870
Color	0.7

Manufacturer: "Gazpromneft – lubricants", Ltd. Office 40, 14/3 Krzhizhanovskogo str., Moscow, 117218, Russia; 1, Gubkina avenue, Omsk, 644040, Russia. TU 38.101821-2001.

While the information and figures given here are typical of current production and conform to specification. Minor variations may occur. No warranty expressed or implied is given concerning the accuracy of the information or the suitability of the products.

18.10.2016 r.

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### TYPICAL PROPERTIES

Viscosity, <ul style="list-style-type: none"> <li>• cSt @ 50°C</li> <li>• cSt @ 40°C</li> </ul>	21.3 31.8
VI	95
Flash Point COC, °C	204
Pour Point, °C	-15
Acid Number, mg KOH/g	0.04
Sulphur Content, % mass	0.1
Oxidation stability after 16h @ 150°C and oxygen consumption 3 dm <sup>3</sup> /h: <ul style="list-style-type: none"> <li>• Sludge, %</li> <li>• Total acid</li> <li>• Volatility acids, mg KOH/g</li> </ul>	0.005 0.09 0.06
Demulsibility, sec.	96
Density @ 15°C, g/cm <sup>3</sup>	0.872
Color	0.5

Manufactured to the order of Gazpromneft-Lubricants, LTD by Slavneft-YANOS, JSC, 130, Moskovskiy Proezd, Yaroslavl, GKP, 150000 Russia. TU 38.101821-2001.

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