

QATOL NOVA ST TURBINE OILS

Premium Performance Industrial Steam and Gas Turbine Oil

PRODUCT DESCRIPTION:

Series is blended from highly refined, virgin base oils and high-tech additives. These oils have excellent oxidation & thermal stability, rust & corrosion protection, anti-foaming, air-release and demulsification properties. They can be used in hydraulic systems and gearboxes requiring mild EP properties. The ISO VG 32, 46, 68 grades are specially developed for steam and gas turbine systems meeting GEK 32568F.

PRODUCT FEATURES:

- QATOL NOVA ST OIL is a premium performance inhibited turbine oil formulated from premium base oil technology and rust, oxidation and foam inhibitors.
- QATOL NOVA ST OIL is designed primarily for use in industrial Gas and Steam Turbines, it is also suited to many other industrial applications including air compressors where R&O type oils are recommended.

CUSTOMER BENEFITS

- Resists degradation
- Exceptional oxidation stability provided by the multi-component inhibitor system resists oil breakdown during exposure to high temperature conditions.
- Potential maintenance and downtime savings
- Premium base stocks and multi-component oxidation inhibitor system resist the formation of harmful sludge and varnish deposits. The rust inhibitor protects components against corrosion.
- Smooth operation
- The excellent water separability of premium base stocks and inhibitor system ensure rapid settling of harmful water accumulated from steam condensate. The non-silicone foam inhibitor allows rapid release of entrained air while minimizing foam formation, enabling reliable operation of sensitive hydraulic control devices.
- Potential inventory savings
- The rust and oxidation inhibited formulation has multipurpose capability in a wide range of industrial applications for which this type of product is recommended, helping to simplify oil inventories and reduce the possibility of using the wrong lubricant.

APPLICATIONS

- Steam and hydraulic turbines operating under all service conditions.
- Industrial gas turbines operating under severe conditions
- Rotating machinery in gas and steam combined cycle cogeneration units
- Hydraulic turbines
- Centrifugal, rotary and reciprocating compressors, turbo-blowers and centrifugal pumps (not recommended for use in breathing air compressors)
- Bath and circulating systems supplying rolling element bearings of all types, lightly loaded gear sets, vacuum pumps, machine tools, conveyors, electric motors, and low to moderate pressure hydraulic pumps where anti-wear properties are not required
- Reduction gear lubrication in marine operations requiring plain non-EP R&O type of Oils.
- General lubrication of machines.

- Bearing lubrication of paper manufacturing & calendaring machines and central lubrication of rolling machines.

SPECIFICATIONS:

- DIN 51524-1 HL
- DIN 51517-2 CL
- DIN 51 515-1 (TD)
- BS 489 (CIGRE)
- GEK 32568 F
- GEK 101941 A
- Siemens/KWU TLV9013/04-01

KEY PROPERTIES:

Properties	Units	Values			Test Methods
ISO VG		32	46	150	
Density @ 35 °C	Kg/m ³	863	868	885	ASTM D-4052
Color	-	<1.0	<1.0	3.0	ASTM D-1500
Viscosity @ 40 °C	mm ² /s	32.8	46.4	150	ASTM D-445
Viscosity @ 100 °C	mm ² /s	5.0	7.0	reported	ASTM D-445
Viscosity Index	-	103	100	95	ASTM D-2270
Total Acid Number	mg KOH/g	0.12	0.12	0.12	ASTM D-664
Flash Point	°C	220	228	250	ASTM D-92
Pour Point	°C	-30	-27	-21	ASTM D-97
Air Release	min.	5.0	5.0	5.0	IP 313
Foaming Sequence I Sequence II Sequence III	ml/ml	15/0 10/0 15/0	15/0 10/0 15/0	15/0 15/0 15/0	ASTM D-892
Demulsibility (min)	ml/ml/ml	40-40-0 15	40-40-0 15	40-40-0 15	ASTM D-1401
Rust Inhibition, Iron protection	rating	Pass	Pass	Pass	ASTM D-665A
Corrosion, Copper strip, 3hrs @ 100°C	rating	1a	1a	1a	ASTM D-130
FZG gear test (A/8.3/90) Failure load stage	-	10	10	10	DIN 51354

TOST life, Time to 2 TAN	hrs.	>3500	>3500	>3500	ASTM D-943
RPVOT (RBOT)	min.	>900	>900	>900	ASTM D-2272

AVAILABLE PACKAGES: 208L, 25L, 20L,