

PetroNexus Orion S2A Turbine Oil

Product reference: GYYY-19

Turbine circulating lubricant offered in viscosity grades 32, 46 and 68.

PetroNexus Orion S2A Turbine Oil

Product name

PetroNexus Orion S2A Turbine Oil

Viscosity / grade

32, 46, 68

Standard references

ASTM D4303, Type I (non-EP)

BS 489

DIN 51515 Part 1 TD

ISO 8086 TSA, TGA

GEK 28143A

GEK 32568E/F

GEK 46506e

Siemens TLV 901304 and TLV 901305, non-geared

Product overview

PetroNexus Orion S2A is a premium turbine oil series designed for the demanding lubrication requirements of modern power-plant steam turbines. It is blended from high-quality, deeply hydrotreated base oils and premium ashless additives. Outstanding thermal and oxidation stability, demulsibility, rust and corrosion protection, air release and resistance to chemical degradation provide excellent equipment protection and reliable operation.

Performance features

1. Outstanding high-temperature oxidation stability prevents sludge formation, effectively controls deposits and supports stable equipment operation.
2. Excellent water separation prevents emulsion formation and allows excess water to be drained easily from the lubrication system.
3. Effective rust and corrosion protection provides long-term protection for critical system components.
4. Good air release and foam control prevent unstable operation and cavitation and reduce equipment malfunctions.

Applications

- Steam turbine-generator sets, industrial steam turbines and turbocompressor units.
- Hydraulic turbines and gas turbines without gearing.
- Equipment requiring high-quality rust-and-oxidation-inhibited (R&O) lubricants.

Packaging

170 kg drums; IBC containers

Unsuitable applications

- Not suitable for gas turbines with heavily loaded gearboxes. Do not use as an extreme-pressure gear oil. Not suitable for turbine equipment exposed to large quantities of acidic process gases.

For grade selection, technical requirements, packaging and commercial terms, contact sales@petronexusgroup.com.

Product visual and technical data



PETRONEXUS

Aolian S2A Series

Premium Turbine Oil

Reliable Lubrication for Power Generation and Industrial Turbines

VISCOSITY GRADES:
32 / 46 / 68

PRODUCT PERFORMANCE



Outstanding High-Temperature Oxidation Stability
Resists oxidation and maintains long oil service life under high temperature conditions.



Excellent Demulsibility and Water Separation Performance
Effectively separates water to maintain clean and reliable lubrication systems.



Effective Rust and Corrosion Protection
Helps protect turbine components and extends equipment service life.



Good Air Release and Foam Control Properties
Rapidly releases entrained air and controls foam to ensure stable system operation.

RELIABLE LUBRICATION FOR POWER GENERATION

HIGHER EFFICIENCY
STRONGER PROTECTION
LONGER SERVICE LIFE



STABLE
EFFICIENT
RELIABLE

PRODUCT DESCRIPTION

Aolian S2A Series is a range of premium-quality turbine oils specifically developed to meet the demanding lubrication requirements of modern steam turbine units in power generation facilities.

Formulated with high-quality, severely hydrotreated base oils and carefully selected premium ashless additive packages, the series delivers outstanding high-temperature oxidation stability, excellent water separation performance, and reliable rust and corrosion protection.

Its effective air release characteristics and foam control properties help maintain stable lubrication performance and dependable operation of turbine lubrication systems.

Designed for demanding industrial turbine applications, Aolian S2A Series provides reliable lubrication and protection for turbine bearings and other compatible components requiring high-quality rust and oxidation inhibited (R&O) lubricants.

CLEANER SYSTEMS BRIGHTER PERFORMANCE A MORE RELIABLE TOMORROW



ANTI-OXIDATION
WATER SEPARATION
SYSTEM PROTECTION
LONGER SERVICE LIFE



Oxidation Stability



Water Separation



System Protection



Stable Operation

APPLICATIONS



Steam Turbine and Power Generation Systems

Suitable for steam turbine generator units in power plants and industrial steam turbine systems.



Turbocompressor Systems

Suitable for compatible turbocompressor units where R&O turbine oils of the specified viscosity grade and performance characteristics are recommended.



Hydraulic Turbines and Gearless Gas Turbines

Suitable for hydraulic turbine units and gas turbine systems without integral gear mechanisms, subject to the equipment manufacturer's lubricant requirements.



Industrial Equipment Requiring R&O Lubricants

Suitable for industrial machinery and lubrication systems requiring premium-quality R&O oils.

TYPICAL DATA

ISO Viscosity Grade		32	46	68
Test Item	Test Method	Typical Data		
Kinematic Viscosity @40°C, cSt	ASTM D445	32.2	46.3	68.2
Viscosity Index	ASTM D2270	105	104	100
Flash Point, °C	ASTM D92	222	228	236
Pour Point, °C	ASTM D97	-24	-21	-16
Density @20°C, kg/l	ASTM D1298	0.851	0.854	0.857
Turbine Oil Stability Test (TOST), hours	ASTM D943	10,000+	10,000+	10,000+

The above data are typical values of the current product.

AVAILABLE PACKAGING



170 kg Drums



IBC Containers



LUBRICATION SOLUTIONS
FOR A MORE PRODUCTIVE WORLD



INDUSTRY



EFFICIENCY



RELIABILITY



GLOBAL SUPPORT

TRUSTED LUBRICATION. A STRONGER TOMORROW.