PERTAMINA TURBOLUBE XT SERIES



Premium Extreme Pressure Turbine Oils



Product Description

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Pertamina Turbolube XT Series is a range of Premium Extreme Pressure Turbine Oils formulated from a combination of hydrocracked base oils together with carefully selected additives that provide excellent thermal and oxidative stability.

Pertamina Turbolube Series is available in 3 viscosity variants:

- Pertamina Turbolube ISO VG 32
- Pertamina Turbolube ISO VG 46
- Pertamina Turbolube ISO VG 68

Application

Pertamina Turbolube Series is the oil-of-choice for a variety of Turbines and Turbine Systems such as in bearings, Hydraulic Systems and Gearbox Systems for: Combined Cycle Turbine Systems; Large Heavy Duty and Smaller Gas Turbines; Steam Turbines and Turbines with Heavy Loaded Gears.

NOTE: Please refer to the Manufacturer's specifications for selecting the appropriate ISO Viscosity Variant.

Performance Benefits

The advanced technology of Turbines and specialised Industrial Equipment requiring superior anti-wear / anti-friction properties makes the Pertamina Turbolube Series the ideal choice:

- Excellent Air Release, Water Separation and Foaming Prevention that provides trouble-free operation through its excellent water separability property to ensure rapid separation of water accumulated from steam condensate, its foam inhibitor additive that prevents excessive foam build-up, and its quick air release that minimises pump cavitation.
- Reduced Downtime and Maintenance Cost that delivers excellent protection against varnish, rust and corrosion. Also, its high oxidation stability ensures optimum performance and a cleaner system contributes to a reduction in unscheduled downtime.
- Extended Oil Drain Intervals as a result of the oil's excellent oxidation resistance and thermal stability at high temperatures that minimises oil thickening and the formation of harmful sludge and deposits.
- Longer Equipment Uptime and Productivity because of the optimised protection against rust and corrosion of metal surfaces.

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Typical Characteristic

Characteristics	Test method	TURBOLUBE XT		
		32	46	68
ISO Viscosity Grade	-	32	46	68
Appearance	-	clear	clear	clear
Density at 15 °C, kg/l	ASTM D-4052	0.8568	0.8568	0.8585
Kinematic Viscosity, at 40 °C, cSt	ASTM D-445	34.80	43.63	68.72
at 100 °C, cSt	ASTM D-445	6.48	7.11	9.14
Viscosity Index	ASTM D-2270	143	123	109
ASTM Colour	ASTM D-1500	L 0.5	L 0.5	L 0.5
Flash Point, °C	ASTM D-92	258	1535	1949
Pour Point, °C	ASTM D-5950	-15	-18	-21
RPVOT, minutes	ASTM D-2272	2328	1535	1949
Foaming Tend/Stab, ml	ASTM D-892			
Seq I		10/0	0/0	30/0
Seq II		10/0	20/0	20/0
Seq III		10/0	0/0	30/0
Air release Value, minutes	ASTM D-3427	2.3	1.9	2.3
Water Separability, minutes	ASTM D-1401	40/40/0(10')	40/40/0(10')	40/40/0(15')
Copper Corrossion Test	ASTM D-130	1A	1A	1A
Rust Preventive	ASTM D-665A	Pass	Pass	Pass
Total Acid Number, mgkOH/g	ASTM D-664	0.12	0.089	0.094

Performance Standards

Pertamina Turbolube XT Series approvals:

Alstom Turbine for ISO VG 32 and ISO VG 46

Pertamina Turbolube Series meets the

performance specifications of:

- ❖ GEK 32568 C, GEK 32568F,
- ❖ GEK 101941A, GEK 107395A,
- ❖ GEK 28143A, GEK 46506D
- ❖ DIN 51524 Part 1 (HL)
- ❖ DIN 51515 Part 1 (L-TD)
- ❖ DIN 51515 Part 2 (L-TG)
- ❖ BS 489 (CIGRE)
- ❖ MIL-L 17672D, MIL-L-17331-G, MIL 17331-B
- CEGB Standard 207001

- ❖ U.S. Steel 120, 126
- ❖ Cincinnati Machine P-38, P-45, P-54, P-55,
- ❖ ABB-Stal VTI 3200-3, 81 21 08
- ❖ AFNOR E-48600 HL
- ❖ SIEMENS AG TLV 9013 04/01
- ❖ SOLAR ES9-224 U
- ❖ ASTM D 4304, Type II (EP)
- Westinghouse 21T0591 and 55125Z3

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Health and Safety

Please contact Pertamina Marketing Head Office for appropriate Material Safety Data Sheet containing information related to Work Health and Safety protection.

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Disclaimer:

Information presented in this Product Data Sheet is as accurate as possible prior to printing. Such information is based upon standard industry tests under controlled laboratory conditions and presented as a guide only. To assess product suitability for its intended application, it is recommended that users refer to the latest version of the Product Data Sheet because the information contained herein is subject to change, without notice, due to the upgrades in product formulation, manufacturers' equipment specifications, user applications and storage.