

LUKOIL TORNADO T 32

High quality ashless turbine oil

APPROVALS

Siemens TLV 901305
Siemens TLV 901304
MAN Turbo
JSC "Bobruisk Machine Building Plant"
JSC "Volgogradneftemash"
PJSC "Nizhnevartivskkremsservice"
Anasaldo Energia
PJSC "The Ural Turbine Works"
JSC "Turboatom"
BRUSH
FLOWERVE

MEETS REQUIREMENTS

DIN 51515-1 L-TD
DIN 51515-2 L-TG
Brown Boveri HTGD 90117
Alstom HTGD 90117 V0001 S
General Electric GEK 32568F
Westinghouse Electric Corp. Turbine oil spec.
U.S. Steel 120
CEGB 207001
MIL L-17672
Solar ES 9-224
BS 489
ISO 8068

PRODUCT DESCRIPTION

LUKOIL TORNADO T 32 is a high quality turbine oil based on synthetic technology base oils with very high-performance ashless additive package. The oil is designed to meet the latest requirements to lubricants for modern steam and gas turbines, including those coupled with gearboxes. The lubricant designed and approved with participation of world leading turbines manufacturers.

LUKOIL TORNADO T 32 provides high level of antioxidant, anti-wear and anticorrosion protection, minimize sludge formation, is compatible with seals. The lubricants is adjusted to modern turbine installations.

The product name in an order:

Turbine oil LUKOIL TORNADO T 32, STO 79345251-036-2009

TYPICAL TEST DATA

PROPERTY	Test methods	LUKOIL TORNADO T 32
ISO Viscosity Grade	-	32
Density at 20 °C, kg/m ³	GOST 3900 / GOST R 51069 / ASTM D1298 / ASTM D4052	832
Kinematic viscosity at 40 °C, mm ² /s	ASTM D445	30.1
Kinematic viscosity at 100 °C, mm ² /s	ASTM D445	5.8
Viscosity index	ASTM D2270	138
Flash Point, COC, °C	ASTM D92	235
Pour Point, °C	GOST 20287 B	-19
Foaming (tendency/stability):		
-at 24 °C	ASTM D892	10/0
-at 94 °C		15/0
-at 24 °C after test at 94 °C		20/0
Air release, min	ASTM D3427 / ISO 9120	2.3
Water separability at 54 °C		
-time for separation, min	ASTM D1401 / ISO 6614	12
-volume of lays (oil-water-emulsion), ml		42-38-0
RPVOT, min	ASTM D2272	1,579

The information given in the typical data does not constitute a specification but is an indication based on current production and can be affected by allowable production tolerances. The right to make modifications is reserved by OOO "LLK-International"