LUKOIL LUBRICANTS COMPANY
LLK-International

LUKOIL TORNADO M 32

High quality turbine oil

Specifications

- Siemens TLV 901304 / TLV 901305
- DIN 51515-2 (L-TG) / 51515-1 (L-TD)
- Ansaldo Energia
- ISO 8068 (L-TSA, L-TGA & L-THA)

Product description

High quality turbine oil designed to meet the modern requirements of equipment manufacturers. Produced on the basis of highly refined base oils and a high-performance additive package that provides a high level of antioxidant, anti-wear and anti-corrosion properties, minimizing the formation of deposits and the absence of a negative effect on seal materials.

Application

Designed for operation in modern steam and gas turbines, including those equipped with gearboxes and intensifiers. It can also be used in equipment requiring the use of turbine oils (for example, in turbochargers).

Benefits

GOOD ANTI-FOAM BEHAVIOUR

Reduces the risk of cavitation wear

OXIDATION RESISTANCE

Outstanding thermal and oxidation stability and hence increased drain interval (especially in comparison with Tp-22S)

IMPROVED ANTI-WEAR PERFORMANCE

Provides reliable protection for both geared and non-geared turbines

The product name in an order: Turbine oil LUKOIL TORNADO M 32, STO 79345251-129-2017

Typical test data

The information given in the typical data does not constitute a specification and can be affected by allowable production tolerances. The right to make modifications is reserved by OOO «LLK-International»

Property	Test methods	Value
Density at 20 °C, kg/m3	ASTM D1298 / ASTM D4052	838
Kinematic viscosity at 40 °C, mm2/s	ASTM D445	30.4
Kinematic viscosity at 100 °C, mm2/s	ASTM D445	5.7
Viscosity index	ASTM D2270	119
RPVOT, min	ASTM D2272	1,050
Oxidation stability by TOST, h	ASTM D943 / ISO 4263-1	>3000
Air release, min	ASTM D3427 / ISO 9120	3.5
Copper corrosion (3 h, 100°C)	ASTM D130	1b
FZG Scuffing, Fail stage	DIN ISO 14635-1, A/8.3/90	>12
Water separability at 54 °C	ASTM D1401 / ISO 6614	
-time for separation, min		5
-volume of lays (oil-water-emulsion), ml		40-40-0
Flash Point, COC, °C	ASTM D92	212
Pour Point, °C	GOST 20287 B	–16
Foaming (tendency/stability):	ASTM D892	
-at 24 °C, ml		300/0
-at 94 °C, ml		50/0
-at 24 °C after test at 94 °C, ml		300/0

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