

LUKOIL TORNADO S 32

High quality synthetic turbine oil

Meets requirements

- Mitsubishi Heavy Industries MS04-MA-CL001(R2) • Mitsubishi Heavy Industries MS04-MA-CL002(R2)
- JIS K-2213

Product description

High performance turbine oil blended with synthetic base stock and a set of carefully selected additives, engineered to provide extended drain performance. Designed to meet the requirements of steam and gas and turbines, manufactured by Mitsubishi Heavy Industries (MHI).

Application

Designed for use in modern high-performance single-shaft steam and gas turbines, multi-shaft gas turbines, turbo compressors, and other units that require the use of high-quality oil with high performance properties. Can be used in applications, where mild EP-performance is required (FZG ≤ 8).

Benefits

OXIDATION RESISTANCE

Superior oxidation stability

HIGH DEMULSIBILITY

Superior demulsification and air release properties

RELIABLE EQUIPMENT OPERATION

Continuous and reliable equipment operation

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
Kinematic viscosity at 40 °C, mm ² /s	ASTM D445	32
Viscosity index	ASTM D2270	140
Flash Point, COC, °C	ASTM D92	240
Pour Point, °C	GOST 20287 B	-22
Foaming (tendency/stability):	ASTM D892	
-at 24 °C, ml		30/0
-at 94 °C, ml		20/0
-at 24 °C after test at 94 °C, ml		30/0
Total acid number, mg KOH/g	ASTM D974	0.16
Oxidation stability by TOST, h	ASTM D943 / ISO 4263-1	>8000
Oxidation stability by Dry TOST	ASTM D7873	pass
RPVOT, min	ASTM D2272	>1000
Water separability at 54 °C	ASTM D1401 / ISO 6614	
-time for separation, min		15
-volume of lays (oil-water-emulsion), ml		40-40-0
Air release, min	ASTM D3427 / ISO 9120	≤ 3
Sulphur content, weight %	GOST 1437 / ASTM D4294	<0,12
Anti-corrosion properties	ASTM D665B	pass
Copper corrosion (3 h, 100°C)	ASTM D130	1b
FZG Scuffing, Fail stage	DIN ISO 14635-1, A/8.3/90	8