PRODUCT DESCRIPTION

Finnexx Ornitho TO Premium EP is a high temperature Multi-purpose turbine oil which can be used for gas and steam turbines. For this reason it is the preferred lubricant in combined cycle units lubricated with one system. It is manufactured from special base oils and a high-performance ashless additive package which provides excellent oxidation stability, anti-corrosion and anti-wear properties.

CUSTOMER BENEFITS

- Provides a superior high temperature oxidation stability, which ensures a prolonged service life under high thermal and mechanical stress.
- Has a superior resistance to sludge formation and formation of acidic oxidation products, which avoids sticking valves and which ensures good protection of bearings.
- Has excellent water separating characteristics.
- Provides excellent foam resistance and air-release properties.

APPLICATIONS

Finnexx Ornitho TO Premium EP is recommended for steam as well as gas turbines, with and without gearbox.

Finnexx Ornitho TO Premium EP is primarily recommended for use in heavy duty industrial gas turbines where reservoir oil temperatures can be up to 100 °C and where gas temperatures in the bearing housings exceeds 400 °C.

The excellent steam as well as gas turbine oil properties makes Finnexx Ornitho TO Premium EP the preferred lubricant for combined cycle units with one system. The all-round properties of Finnexx Ornitho TO Premium EP make it suitable for the lubrication of a wide range of equipment associated with the turbines for which it is recommended. Typical applications include air compressors, bath and circulating systems supplying bearings of all types, lightly to moderately loaded gear sets, pumps, electric motors and low to moderate pressure hydraulic systems.

Not recommended for aero derivative gas turbines in either aircraft or non-aviation service.

PERFORMANCE

	Finnexx Ornitho TO Premium EP		
Standards	VG 32	VG 46	VG 68
DIN 51515/T1 L-TD and L-TG	√	1	4
ISO 8068 (type L-TSE and L-TGE)	√	√	√
BS 489	√	√	√
ASTM D4304	√	1	√

Finnexx Lubricants- Product Data Sheets

Finnexx Ornitho TO Premium EP 32/46 is recommended in applications such as:

- Siemens TLV 9013 04 for use in turbosets with and without gearbox.
- Alstom HTGD 90117
- Skoda Power TP 0010P

TYPICAL TEST DATA

Test methods	32	46	68
Visual	Bright & Clear	Bright & Clear	Bright & Clear
ASTM D445	32	46	68
ASTM D445	5.6	6.9	8.8
ASTM D2270	112	112	109
ASTM D1500	0.5	0.5	0.5
ASTM D92	226	230	244
ASTM D97	-9	-9	-12
ASTM D4052	0.862	0.867	0.870
ASTM D1401	40-40-0 (10)	40-40-0 (15)	40-40-0 (15)
DIN 51381	3	3	8
DIN 51558-1	0.1	0.1	0.1
ASTM D130	1A	1A	1A
ASTM D665B	Pass	Pass	Pass
ISO 4406	16/14/>9	16/14/>9	17/15/10
ASTM D6304	< 0,01	< 0,01	< 0,01
ASTM D892	0	0	0
	l		
ISO 13357		95%/95%	
ISO 13357		1,01	
	L	<u> </u>	<u> </u>
ASTM D2272	+1000	+1000	+1000
ASTM D943	+10000	+10000	+10000
DIN 51354	12	12	12
	Visual ASTM D445 ASTM D445 ASTM D445 ASTM D2270 ASTM D1500 ASTM D92 ASTM D97 ASTM D4052 ASTM D4052 ASTM D1401 DIN 51381 DIN 51558-1 ASTM D130 ASTM D665B ISO 4406 ASTM D665B ISO 4406 ASTM D892 ISO 13357 ISO 13357 ASTM D2272 ASTM D943	Visual Bright & Clear ASTM D445 32 ASTM D445 5.6 ASTM D2270 112 ASTM D1500 0.5 ASTM D92 226 ASTM D97 -9 ASTM D4052 0.862 ASTM D1401 40-40-0 (10) DIN 51381 3 DIN 51558-1 0.1 ASTM D65B Pass ISO 4406 16/14/>9 ASTM D6304 < 0,01	Visual Bright & Clear Bright & Clear ASTM D445 32 46 ASTM D445 5.6 6.9 ASTM D2270 112 112 ASTM D1500 0.5 0.5 ASTM D92 226 230 ASTM D97 -9 -9 ASTM D4052 0.862 0.867 ASTM D1401 40-40-0 (10) (15) DIN 51381 3 3 DIN 5158-1 0.1 0.1 ASTM D130 1A 1A ASTM D665B Pass Pass ISO 4406 16/14/>9 16/14/>9 ASTM D6304 < 0,01

Values are typical of production but will be subject to variation.



Health & Safety Note – Always maintain good levels of personal hygiene when handling mineral oils. Wear protective clothing/gloves. Wash hands and skin areas where contact has occurred and avoid ingestion. See applicable Material Safety Data Sheet for further information.