Turbinol X-EP™ 32F, 46F & 68F

Premium anti-wear turbine lubricant

Product Data

Description

The BP Turinol X-EP F turbine oil range of lubricants are based upon premium quality mineral oils enhanced with rust and oxidation inhibitors to give maximum protection at high temperatures. They also contain anti-wear additives to give additional load carrying properties. In package they are filtered to an ISO 4406 cleanliness of 16/14/12.

Applications

Turbinol X-EP F grades are recommended for industrial gas turbines where the lubricant is likely to be exposed to very high localized temperatures.
Turbinol X-EP F possess superior air release performance, good resistance to foaming and excellent water separation properties.
They are also suitable for the lubrication of steam turbines and Combined Cycle generating systems where the steam and gas turbines share a common oil supply.
Turbinol X-EP F contains a load carrying additive and can be used in geared turbines with a common oil reservoir.
Turbinol X-EP F range is fully compatible with nitrile, silicone and fluropolymer seal materials.

Turbinol X-EP F grades meet the requirements of:
Solar ES 9-224, Class II revision W
British Standard BS 489 DIN 51515 Nuclear
Electric 207001 National Power PowerGen GEK
GEK-28143 A
32568F GEK 107395A GEK 101941 Alstom
HTDG 90 117 (formally ABB) Siemens TLV
9013 04 (gas & steam turbines)

Advantages

- Superior resistance to oxidation & thermal degradation provides a very long life lubricant because of low deposit / lacquer formation.
- Anti-wear properties including FZG 10 rating under A8.3/90 rest conditions means its suitable for geared turbine applications and for a wide range of other applications (e.g. pumps, motors, compressors, hydraulics, and turbo-couplings) thereby rationalizing the lubricants required on site.
- Suitable for the lubrication of both gas and steam turbines makes it suitable for combined cycle generating stations.
- Superior air release properties means it meets the requirements of all turbine manufacturers.
- Excellent water separation and corrosion inhibition means reduced down time through prolonged lubricant life and increased equipment reliability.

Storage

All packages should be stored under cover. Where outside storage is unavoidable drums should be laid horizontally to avoid the possible ingress of water and the obliteration of drum markings. Products should not be stored above 60°C, exposed to hot sun or freezing conditions.

Health & Safety Recommendations

Health, safety and environmental information is provided for this product in the Materials Safety Data Sheet. This gives details of potential hazards, precautions and First Aid measures, together with environmental effects and disposal of used products. BP Australia will not accept liability if the product is used other than in the manner or with the precautions or for the purpose/s specified. Before the product is used other than as directed, advice should be obtained from the local BP office.

Typical characteristics

	Test Method	Units	32F	46F	68F
Density @ 40^{0}C	ISO 12185	g/ml	0.88	0.86	0.87
K.V. @ 40^{0}C	ISO 3104	mm2/s	32	46	68
KV @ 100^{0}c	ISO 3104	mm2/s	5.7	7.1	9.5
Viscosity Index	ISO 2909	-	112	112	112
Foam Sequence I	ISO 6247	mls/mls	10/0	10/0	10/0
Air Release @ 50^{0}C	ISO 9120	mins	2	2	3
Demulsification No.	IP 19	Secs	60	60	90
Pour Point	ISO 3016	^{0}C	-15	-15	-12
Flash Point, COC	ISO 2592	^{0}C	222	234	234
Rust Test (24 hrs synthetic sea water)	ISO 7120	-	Pass	Pass	Pass
RPVOT	ASTM D2272	MINS	1200	1200	-
Copper Corrosion, 3 hrs @ 100^{0}C	ISO 2160	-	1A	1A	1A
TOST, hrs to 2 mg KOH/g	ASTM D943	Hrs	>10,000	>10,000	-
FZG fail stage (A8.3.90)	DIN 51354	-	9	10	10
Cleanliness, in package	ISO 4406	x/y/z	16/14/12	16/14/12	16/14/12

The above figures are typical of those obtained with normal production tolerance and do not constitute a specification.

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