



Product Data

Energol THB

Turbine lubricant

Description

The BP Energol™ THB turbine oil range of lubricants are based upon highly refined mineral oil enhanced with rust and oxidation inhibitors.

Application

Energol THB turbine oils are formulated using highly refined mineral oils, with selected additives to improve their inherent high oxidation stability and to protect against corrosion of ferrous and non ferrous metals. Energol THB oils are primarily intended for the lubrication of gas & steam turbines where the base oils used have been selected to give the requisite water separation characteristics as well as providing resistance to foaming and air entrainment, all essential properties for this demanding application Energol THB grades can also be used as a general purpose rust & oxidation (R&O) lubricant for compressors, hydraulic systems, gear boxes and circulatory systems where high oxidation stability performance is required but with no demand for antiwear performance. Energol THB is fully compatible with nitrile, silicone and fluropolymers seal materials.

Energol THB grades meet the requirements of:

British Standard BS 489

DIN 51515

Nuclear Electric 207001

National Power

PowerGen

GEK 28143A

Alstom HTDG 90 117 (formally ABB)

Advantages

- Excellent oxidation stability provides trouble free operation for extended periods in aggressive environments where heat, air, moisture and metals can all contribute to oil degradation.
- Good foam and air release properties means the product meets the requirements of most turbine builders.
- Excellent water separation and corrosion inhibition means reduced down time through prolonged lubricant life and increased equipment reliability.

Typical Characteristics

Name	Method	Units	32	46	68	100	150
Density @ 15°C	ISO 12185	g/ml	0.87	0.88	0.88	0.88	0.88
K.V @ 40°C	ISO 3104	mm ² /s	32	46	68	100	150
K.V @ 100°C	ISO 3104	mm ² /s	5.3	6.7	8.6	10.8	-
Viscosity Index	ISO 2909	-	102	102	102	97	-
Foam Sequence I	ISO 6247	mls/mls	10/0	10/0	20/0	20/0	20/0
Air Release @ 50°C	ISO 9120	mins	3	4	6	8	12
Demulsification No	IP 19	secs	60	60	90	90	-
Pour Point	ISO 3016	°C	-12	-12	-12	-12	-
Flash Point, PMC	ISO 2719	°C	216	220	230	230	220
Rust Test (24 hrs synthetic sea water)	ISO 7120	-	Pass	Pass	Pass	Pass	-
RPVOT	ASTM D2272	mins	450	450	450	450	500
Copper Corrosion, 3hrs @ 100C	ISO 2160		1A	1A	1A	1A	-
TOST, hrs to 2 mg KOH/g	ASTM D943	hrs	4000	4000	-	-	-

Subject to usual manufacturing tolerances.

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.

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