



OPTIMUS TURBINE OIL

PRODUCT DESCRIPTION:

Optimus Turbine Oil is a lubricant specifically designed for use in steam and gas turbine applications. It is formulated with hydrotreated base oil and a combination of zinc free ashless additives which offers good oxidation stability and corrosion protection along with good demulsibility, antifoaming and air release properties.

APPLICATION:

It is used in stationary gas turbines, steam turbines and also in electrical or in driven by steam machines, such as generators, compressors, pumps and gearboxes. It can also be used for lubrication of hydraulic systems, compressors, gear transmissions, bearings and other industrial applications.

FEATURES & BENEFITS:

- Good oxidation stability prolonging the service life of the oil and increasing service intervals.
- Good air release properties protect against air entrainment and ensure optimum oil film thickness.
- Good antifoaming properties avoid the build-up of foam, and reduce oil leakage from the system.
- Good water separation properties ensure that any water contamination can be easily separated from the oil, protecting equipment against rusting and corrosion and extending oil life.
- Anti-rust and corrosion prevention properties.

PERFORMANCE LEVELS:

- DIN 51515 TEIL 1 (L-TD), TEIL 2 (L-TG)
- TLV 901304
- MIL-L-17672 D
- BRITISH STANDARD BS 489
- GENERAL ELECTRIC GEK 32568 A
- GENERAL ELECTRIC GEK 32568 C
- CEEB STANDARD 207001
- BROWN BOVERI HTGD 90117
- U.S. STEEL 120
- WESTINGHOUSE ELECTRIC CORP. TURBINE OIL SPEC
- ALSTOM HTGD 90117 V0001 S
- DIN 51524-1 / 2

TYPICAL PROPERTIES:

PARAMETERS	TEST METHOD	UNIT	OPTIMUS TURBINE OILS		
			32	46	68
ISO Viscosity Grade			32	46	68
Kinematic Viscosity @ 104°F /40°C	ASTM D7042	cSt	32	46	68
Kinematic Viscosity @ 212°F /100°C	ASTM D7042	cSt	5.44	6.84	9.13
Viscosity Index	ASTM D2270	-	103	102	109
Density@15°C/ 60°F	ASTM D4052	g/cm ³	TBR	TBR	TBR
Flash Point (min)	ASTM D92	°C	220	230	242
Pour Point (max)	ASTM D97	°C	-21	-21	-30
TAN	ISO 6618	mgKOH/g	<0.2	<0.2	<0.2
Rust Preventing Characteristics	ISO 7120	-	B	B	B
Copper Corrosion	ISO 2106	-	1a	1a	1a
Emulsion Characteristics, 40-37-3	ISO 6614	min	10	15	15
Air Release to 0.2 %	ISO 9120	min	2	2	2
Foaming at 50 °C	ISO 6247	ml	50	50	50
Remaining Foam after 1 minute rest	ISO 6247	ml	0	0	0
Water Content	Karl Fischer	ppm	60	60	60
Zinc Content	ASTM D4951	ppm	<10	<10	<10
Oxidation Stability	ISO 4263	h	2700	2700	2700

DISCLAIMER: The test data provided above is not a specification but is indicative and may vary within permissible production tolerances. Lubrex reserves the right to modify this test data. Updated information will supersede previous versions, so please refer to the latest version of this Technical Data Sheet (TDS).

HEALTH & SAFETY, ENVIRONMENT:

Prolonged and repeated contact with oil may cause skin disorders. Avoid contact. Wash immediately with soap and water. Do not discharge used oil in to drains or the environment. Dispose to an authorized used oil collection point. For further information on Safety Guidelines please refer to MSDS available on our website www.lubrex.net

HEALTH & SAFETY:

This product is not likely to present any significant health or safety hazards when properly used in the recommended application and good standards of personal hygiene are maintained. Reference is made to the Safety Data Sheet (SDS) which is available on request via your local sales office or via the internet www.lubrex.net

PROTECT THE ENVIRONMENT:

Take used oil to an authorized collection point. Comply with local regulation. Do not discharge into drains, soil or water.

STORAGE:

We recommend to store all packages under cover. In case outside storage is unavoidable, drums should be laid horizontally to avoid the possible ingress of water and damage to drum markings. Products should never be stored above 60°C, exposed to hot sun or freezing conditions.

™ Trademark of LUBREX, Registered in Various Countries © 2005

All statements, information and data presented herein are believed to be accurate and reliable, but are not to be taken as a guarantee, an express warranty or an implied warranty of merchantability or fitness for a particular purpose, or representation, express or implied, for which LUBREX and its affiliates assume legal responsibility.