repsol lubricants

Turbines & Compressors Oil

MAKER TURBO ARIES

Description

In order to comply with the stringent demands of the different turbine manufacturers, a type of lubricant that, attaining excellent values, complies with various rapid oxidation tests such as IP-280, ASTM-D-2272 and IP-328, as well as exceeding 4000 h in the conventional ASTM-D-943 test. Furthermore, these oils have passed radiation exposure tests, obtaining certification for use in nuclear power plants. They are specially recommended for nuclear and thermal power plant steam turbines requiring oils inhibited against oxidation, rust and with an extended service life. They can also be applied in all uses of Aries lubricants, obtaining greater durability.

Properties

- Extraordinary resistance to ageing and sludge formation.
- High resistance to rust.
- Great water separation capacity.
- Excellent anti-foam properties.
- Very good air elimination.
- Used by most turbines installed in Spain.

Quality levels, approvals and recommendations

- ALSTOM HTGD 90117 V0001T
- CSN 65 6620 (32)
- DIN 51506 VBL
- DIN 51515, L-TD
- DIN 51517/2 - CL
- DOOSAN SKODA Tp0010P (32)*
- GEK 46506 E; 32568 J; 28143 B
- HOWDEN Turbo (ex KKK) (46)
- ISO 3498-CKB
- ISO 6521/1 DAA
- ISO 6521/2 DAG
- ISO 6743/3 - DAA, DAG
- ISO 6743/5 TGB/TSA
- SIEMENS TLV 9013 04 (32, 46)*
- SOLAR ES 9-224 AA Class II (32, 46)

*Formal approval

Technical specifications

	UNIT	METHOD	VALUE		
ISO Viscosity Grade			32	46	68
Density at 15 °C	g/cm3	ASTM D4052	0,873	0,877	0,883
Kinematic viscosity at 40 °C	cSt	ASTM D445	32	46	68
Kinematic viscosity at 100 °C	cSt	ASTM D445	5,4	6,8	8,5
Viscosity index	-	ASTM D2270	100	98	98
Flash point, open cup	°C	ASTM D92	215	220	230
Pour point	°C	ASTM D97	-15	-12	-12
FZG (A/8,3/90): Failure load stage	-	ISO 14635	9	10	10
Air release at 50 °C	min	ASTM D3427	2,5	2,5	4
Oxidation (TAN = 2)	h	ASTM D943	›4.000	›3.000	›3.000
RPVOT	min	ASTM D2272	750	600	600
Rust, method A	-	ASTM D665	Pasa	Pasa	Pasa
TAN	mg KOH/g	ASTM D664	0,14	0,14	0,14
Water separability at 54 °C	min	ASTM D1401	‹15	‹15	‹30

The above mentioned characteristics are typical values and should not be considered product specifications.