PRODUCT DATA SHEET

Q8 Volta 46

Ultra-high performance turbine oil

Description

Q8 Volta 46 is an ultra-high performance synthetic (Group III) turbine oil. This product is developed for use in steam and gas turbine circulation systems. Due to the outstanding oxidative and thermal stability Q8 Volta 46 is specifically suitable for extreme operating conditions and high-temperature gas turbine operations. Designed as part of the Q8Oils clean technology program to ensure superior varnish/deposit control in combination with long oil life.

Applications

Industrial steam- and gas turbines Hydroelectric turbines Circulation systems where R&O type turbine oil is required Centrifugal- and axial pumps, and turbo-compressors, where R&O type turbine oil is recommended

Features	Benefits
Extended oil life	*Superior oxidative stability, guaranteeing long oil life under continuous and severe operating conditions*
Enhanced technology	*Engineered with superior air release properties, exceptional anti-foaming performance and rapid water separation to ensure problem-free service*
Lower operational costs	*One product that combines exceptional thermal stability as needed for severe duty gas turbines as well as superior water separability for high performance steam turbine operations*

Specifications & Approvals

ASTM	D 4304, Type I	**ISO**	6743-5 L-TSA
Alstom Power	HTGD 90117	**ISO**	8068
British Standard	489	**JIS**	K 2213 Type 2
DIN	51515-1 L-TD	**MAN Turbo**	SPD 10000494596
DIN	51515-2 L-TG	**Siemens**	TLV 9013 04
ISO	6743-5 L-TGA	**Siemens**	TLV 9013 05
ISO	6743-5 L-TGB	**Siemens Westinghouse**	21T0591
ISO	6743-5 L-TGSB		

Properties

	Method	Unit	Typical
Appearance	*Visual*	*-*	*Bright and Clear*
ISO Viscosity Grade	*-*	*-*	*46*
Kinematic Viscosity, 40 °C	*D 445*	*mm²/s*	*46.0*
Kinematic Viscosity, 100 °C	*D 445*	*mm²/s*	*7.6*
Viscosity Index	*D 2270*	*-*	*131*
Total Acid Number	*D 664*	*mg KOH/g*	*<0.03*
Pour Point	*D 97*	*°C*	*-12*
Flash Point, COC	*D 92*	*°C*	*240*
Air Release, 50 °C	*D 3427*	*min*	*3*
Emulsion, Distilled Water, 54.4 °C	*D 1401*	*-*	*40-40-0 (10)*
Foam, 10 min settling, seq. 1-2-3	*D 892*	*ml*	*0/0/0*
Foam, 5 min blowing, seq. 1-2-3	*D 892*	*ml*	*0/0/0*
Rust Test, Proc. A and B, 24 h	*D 665*	*-*	*pass*
Copper Strip, 3 h, 100 °C	*D 130*	*-*	*1*

The figures above are not a specification. They are typical figures obtained within production tolerances.