PRODUCT DATA SHEET

Q8 Volta EP 32

Ultra-high performance turbine oil

Description

Q8 Volta EP 32 is an ultra-high performance synthetic (Group III) turbine oil. This product is developed for use in steam and gas turbines as well as combined cycle applications, including geared turbines. Due to the outstanding oxidative and thermal stability Q8 Volta EP 32 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 and good load carrying capabilities in combination with long oil life.

Applications

Industrial steam- and gas turbines, including geared turbines and combined cycle operations Hydroelectric turbines Circulation systems where turbine oil quality is required Centrifugal- and axial pumps, and turbo-compressors, where turbine oil quality 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 II (EP)	**ISO**	6743-5 L-TGF
Alstom Power	HTGD 90117	**ISO**	6743-5 L-TGSE
British Standard	489	**ISO**	6743-5 L-TSE
DIN	51515-1 L-TDP	**ISO**	8068
DIN	51515-2 L-TGP	**JIS**	K 2213 Type 2
GE Energy	GEK 101941	**MAN Turbo**	SPD 10000494596
GE Energy	GEK 107395	**Siemens**	MAT812108
GE Energy	GEK 121608	**Siemens**	TLV 9013 04
GE Energy	GEK 28143	**Siemens**	TLV 9013 05
GE Energy	GEK 32568	**Siemens Westinghouse**	M-Spec 55125Z3
GE Energy	GEK 32568h	**Solar Turbines**	ES 9-224 (Class II)
GE Energy	GEK 46506	**Turbomach**	ES 9-224 (Class II)
ISO	6743-5 L-TGE		

Properties

	Method	*Unit*	*Typical*
Appearance	*Visual*	*-*	*Bright and Clear*
Colour	*D 1500*	*-*	*L 0.5*
ISO Viscosity Grade	*-*	*-*	*32*
Kinematic Viscosity, 40 °C	*D 445*	*mm²/s*	*32.0*
Kinematic Viscosity, 100 °C	*D 445*	*mm²/s*	*5.9*
Viscosity Index	*D 2270*	*-*	*132*
Total Acid Number	*D 664*	*mg KOH/g*	*<0.03*
Pour Point	*D 97*	*°C*	*-12*
Flash Point, COC	*D 92*	*°C*	*230*
Air Release, 50 °C	*D 3427*	*min*	*2*
Emulsion, Distilled Water, 54.4 °C	*D 1401*	*-*	*40-40-0 (5)*
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*
FZG Test, A/8.3/90	*DIN 51354*	*load stage*	*9*
Zinc content	*D 4951*	*mg-kg*	*< 5*
Oxidation Characteristics (TOST)	*D 943*	*hrs*	*> 10.000*
Oxidation Stability (RPVOT)	*D 2272*	*min*	*1.150*
Modified Oxidation Stability (RPVOT)	*D 2272*	*%*	*95*

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