PRODUCT DATA SHEET

Q8 Volta EP 46

Ultra-high performance turbine oil

Description

Q8 Volta EP 46 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 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 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**	8068
Alstom Power	HTGD 90117	**JIS**	K 2213 Type 2
British Standard	489	**MAN Turbo**	SPD 10000494596
DIN	51515-1 L-TDP	**Siemens**	MAT812109
DIN	51515-2 L-TGP	**Siemens**	TLV 9013 04
ISO	6743-5 L-TGE	**Siemens**	TLV 9013 05
ISO	6743-5 L-TGF	**Solar Turbines**	ES 9-224 (Class II)
ISO	6743-5 L-TGSE	**Turbomach**	ES 9-224 (Class II)
ISO	6743-5 L-TSE		

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*
FZG Test, A/8.3/90	*DIN 51354*	*load stage*	*9*

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

Sustainability

*The product Carbon Footprint (PCF), cradle-to-gate (Q8Oils state of the art facility in Belgium), of Q8 Volta EP 46 is **1.25** kg CO_2eq / kg.*
Please contact Q8Oils to learn more about the positive environmental impact, the handprint, of this product.
To ensure accuracy and reliability, the PCF calculation tool has been verified by an independent third party. The verification report is available in the disclaimer.
For more info check here

we take care

PRODUCT CARBON FOOTPRINT
METHOD VALIDATED BY:

PCF CALCULATION IN LINE WITH:
ISO 14067 | ATIEL-UEIL PCF

VINÇOTTE