PRODUCT DATA SHEET

Q8 Volta 32

Ultra-high performance turbine oil

Description

Q8 Volta 32 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 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 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-TGSB
Alstom Power	HTGD 90117	**ISO**	6743-5 L-TSA
British Standard	489	**ISO**	8068
Chinese Standard	GB 11120-2011	**JIS**	K 2213 Type 2
DIN	51515-1 L-TD	**MAN Turbo**	SPD 10000494596
DIN	51515-2 L-TG	**Siemens**	TLV 9013 04
GE Energy	GEK 107395	**Siemens**	TLV 9013 05
GE Energy	GEK 32568	**Siemens Westinghouse**	21T0591
ISO	6743-5 L-TGA	**Siemens Westinghouse**	M-Spec 55125Z3
ISO	6743-5 L-TGB		

Properties

	Method	*Unit*	*Typical*
Appearance	*Visual*	*-*	*Bright and Clear*
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*
Oxidation Characteristics (TOST)	*D 943*	*hrs*	*>10.000*
Oxidation Stability (RPVOT)	*D 2272*	*min*	*>1.000*
Modified Oxidation Stability (RPVOT)	*D 2272*	*%*	*95*
Zinc content	*D 4951*	*mg-kg*	*absent (<5)*
Oxide Ash	*D 482*	*% mass*	*<0.01*

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 32 is **1.24** 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