

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

Extended oil life

Benefits

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	mm ² /s	32.0
Kinematic Viscosity, 100 °C	D 445	mm ² /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.