

## 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

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 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 120498	Siemens	TLV 9013 04
GE Energy	GEK 121608	Siemens	TLV 9013 05
GE Energy	GEK 28143	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	mm <sup>2</sup> /s	32.0
Kinematic Viscosity, 100 °C	D 445	mm <sup>2</sup> /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.