

## 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

<b>ASTM</b>	D 4304, Type II (EP)	<b>ISO</b>	8068
<b>Alstom Power</b>	HTGD 90117	<b>JIS</b>	K 2213 Type 2
<b>British Standard</b>	489	<b>MAN Turbo</b>	SPD 10000494596
<b>DIN</b>	51515-1 L-TDP	<b>Siemens</b>	MAT812109
<b>DIN</b>	51515-2 L-TGP	<b>Siemens</b>	TLV 9013 04
<b>ISO</b>	6743-5 L-TGE	<b>Siemens</b>	TLV 9013 05
<b>ISO</b>	6743-5 L-TGF	<b>Solar Turbines</b>	ES 9-224 (Class II)
<b>ISO</b>	6743-5 L-TGSE	<b>Turbomach</b>	ES 9-224 (Class II)
<b>ISO</b>	6743-5 L-TSE		

### Properties

	Method	Unit	Typical
Appearance	Visual	-	Bright and Clear
ISO Viscosity Grade	-	-	46
Kinematic Viscosity, 40 °C	D 445	mm <sup>2</sup> /s	46.0
Kinematic Viscosity, 100 °C	D 445	mm <sup>2</sup> /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.