

## Q8 Volta 46

Ultra-high performance turbine oil

### Description

Q8 Volta 46 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 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 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-TSA
Alstom Power	HTGD 90117	ISO	8068
British Standard	489	JIS	K 2213 Type 2
DIN	51515-1 L-TD	MAN Turbo	SPD 10000494596
DIN	51515-2 L-TG	Siemens	TLV 9013 04
ISO	6743-5 L-TGA	Siemens	TLV 9013 05
ISO	6743-5 L-TGB	Siemens Westinghouse	21T0591
ISO	6743-5 L-TGSB		

### 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	-30
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

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 46 is **1.24** kg CO<sub>2</sub>eq / 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

