

Q8 van Gogh EP 46

High performance turbine oil

Description

Q8 van Gogh EP 46 is a high performance turbine oil based on selected premium base fluids.

This product is developed for use in steam and gas turbines as well as combined cycle applications, including geared turbines.

Q8 van Gogh EP 46 meet the challenges of the latest generation turbines making it suitable to operate under mild to severe conditions. 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, turbo-compressors, gas booster compressors (GBC) where turbine oil quality is recommended

Features

Turbine performance

Benefits

Long trouble free service life, excellent turbine protection and outstanding resistance against ageing

Enhanced technology

Developed with outstanding anti-wear/extreme pressure protection to meet the load carrying requirements of geared turbines

Lower operational costs

Specifically developed with excellent protection against the formation of varnish

Specifications & Approvals

ASTM	D 4304, Type II (EP)	ISO	6743-5 L-TSE
British Standard	489	ISO	8068
Chinese Standard	GB 11120-2011	Indian Standard	IS 1012:2002
DIN	51515-1 L-TDP	JIS	K 2213 Type 2
DIN	51515-2 L-TGP	Siemens	MAT812109
DIN	51524-1 HL	Siemens	TLV 9013 04
Fincantieri		Siemens	TLV 9013 05
GE Thermodyn	ISPSH901SDI	Solar Turbines	ES 9-224 (Class I)
ISO	6743-5 L-TGE	Turbomach	ES 9-224 (Class I)

Properties

	Method	Unit	Typical
Density, 15 °C	D 4052	g/ml	0,875
Kinematic Viscosity, 40 °C	D 445	mm²/s	46.0
Kinematic Viscosity, 100 °C	D 445	mm²/s	7
Viscosity Index	D 2270	-	109
Total Acid Number	D 974	mg KOH/g	0.13
Oxidation Characteristics (TOST)	D 943	hrs	> 10.000
Modified Oxidation Stability (RPVOT)	D 2272	%	95
Oxidation Stability (RPVOT)	D 2272	min	> 1.000
Foam, 5 min blowing, seq. 1-2-3	D 892	ml	10/10/10
Foam, 10 min settling, seq. 1-2-3	D 892	ml	0/0/0
Oxide Ash	D 482	% mass	< 0.001
Zinc content	D 4951	mg/kg	< 5
Pour Point	D 97	°C	-36
Flash Point, COC	D 92	°C	222
Colour	D 1500	-	L 1.0
Air Release, 50 °C	D 3427	min	4
Emulsion, Distilled Water, 54.4 °C	D 1401	-	40/40/0 (10)
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	10
Four Ball Wear, 392 N, 75 °C, 1200 rpm	D 4172	mm	0.35 - 0.5

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 van Gogh EP 46 is **1.21** kg CO₂eq / 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

