

## Q8 van Gogh EP 32

High performance turbine oil

### Description

Q8 van Gogh EP 32 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 32 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, and 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)	GE Thermodyn	ISPSH901SDI
British Standard	489	ISO	6743-5 L-TGE
Chinese Standard	GB 11120-2011	ISO	6743-5 L-TSE
DIN	51515-1 L-TDP	ISO	8068
DIN	51515-2 L-TGP	Indian Standard	IS 1012:2002
GE Energy	GEK 101941	JIS	K 2213 Type 2
GE Energy	GEK 107395	Siemens	MAT812108
GE Energy	GEK 121608	Siemens	TLV 9013 04
GE Energy	GEK 28143	Siemens	TLV 9013 05
GE Energy	GEK 32568	Siemens Westinghouse	M-Spec 55125Z3
GE Energy	GEK 46357	Solar Turbines	ES 9-224 (Class I)
GE Energy	GEK 46506	Turbomach	ES 9-224 (Class I)

## Properties

	Method	Unit	Typical
Density, 15 °C	D 4052	g/ml	0,87
Kinematic Viscosity, 40 °C	D 445	mm <sup>2</sup> /s	32.0
Kinematic Viscosity, 100 °C	D 445	mm <sup>2</sup> /s	5.3
Viscosity Index	D 2270	-	98
Total Acid Number	D 974	mg KOH/g	0.13
Oxidation Characteristics (TOST)	D 943	hrs	> 10.000
Foam, 5 min blowing, seq. 1-2-3	D 892	ml	10/10/110
Foam, 10 min settling, seq. 1-2-3	D 892	ml	0/0/0
Modified Oxidation Stability (RPVOT)	D 2272	%	95
Pour Point	D 97	°C	-12
Flash Point, COC	D 92	°C	220
Colour	D 1500	-	L 1.0
Air Release, 50 °C	D 3427	min	3
Rust Test, Proc. A and B, 24 h	D 665	-	pass
FZG Test, A/8.3/90	DIN 51354	load stage	10

Zinc content	D 4951	mg-kg	< 5
Emulsion, Distilled Water, 54.4 °C	D 1401	-	40/40/0 (10)

*The figures above are not a specification. They are typical figures obtained within production tolerances.*