PRODUCT DATA SHEET

# 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, where turbine oil quality is recommended*

| Features | Benefits |
|---|---|
| ***Turbine performance*** | *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** | 8068 |
| **British Standard** | 489 | **JIS** | K 2213 Type 2 |
| **DIN** | 51515-1 L-TDP | **Siemens** | MAT812108 |
| **DIN** | 51515-2 L-TGP | **Siemens** | TLV 9013 04 |
| **GE Energy** | GEK 28143 | **Siemens** | TLV 9013 05 |
| **GE Thermodyn** | ISPSH901SDI | **Siemens Westinghouse** | M-Spec 55125Z3 |
| **ISO** | 6743-5 L-TGE | **Solar Turbines** | ES 9-224 (Class I) |
| **ISO** | 6743-5 L-TSE | **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* | *mm²/s* | *32.0* |
| *Kinematic Viscosity, 100 °C* | *D 445* | *mm²/s* | *5.3* |
| *Viscosity Index* | *D 2270* | *-* | *98* |
| *Total Acid Number* | *D 974* | *mg KOH/g* | *0.13* |
| *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* |

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