

RAVENOL Turbo Oil T32 and RAVENOL Turbo Oil T46 with the respective Siemens approvals TLV 9013 04 and TLV 9013 05

We are happy to be able to present two new products by RAVENOL for gas and steam turbines that are available to you immediately.



RAVENOL Turbo Oil T32 RAVENOL Turbo Oil T46

RAVENOL Turbo Oil T32 and RAVENOL Turbo Oil T46 are high-grade lubricating oils for gas and steam turbines and also for turbo compressors with and without transmission, which meet the requirements of DIN 51 515-2. They are based on high-grade base oils with additives to increase the anti-corrosion and ageing resistance properties.

RAVENOL Turbo Oil T32 and RAVENOL Turbo Oil T46 appeal through their very good air separating properties that almost completely excludes frothing.

1. RAVENOL Turbo Oil T32

ARTICLE NUMBER: 1331114

SPECIFICATIONS:
DIN 51515 PART 1 (L-TD), PART 2 (L-TG)

APPROVALS:
SIEMENS TLV 9013 04 AND TLV 9013 05

RECOMMENDATIONS:
MIL-L-17672 D, BRITISH STANDARD BS 489, GENERAL ELECTRIC GEK 32568 A/C, CEGB STANDARD 207001, BROWN BOVERI HTGD 90117, U.S. STEEL 120, WESTINGHOUSE ELECTRIC CORP. TURBINE OIL SPEC., ALSTOM HTGD 90117 V0001 S, SOLAR ES 9 224 REQUIREMENTS FOR GAS TURBINE OILS CLASS II (ISO VG 32)

1331114-020 1 x 20 L Canister
1331114-060 1 x 60 L Drum
1331114-208 1 x 208L Drum

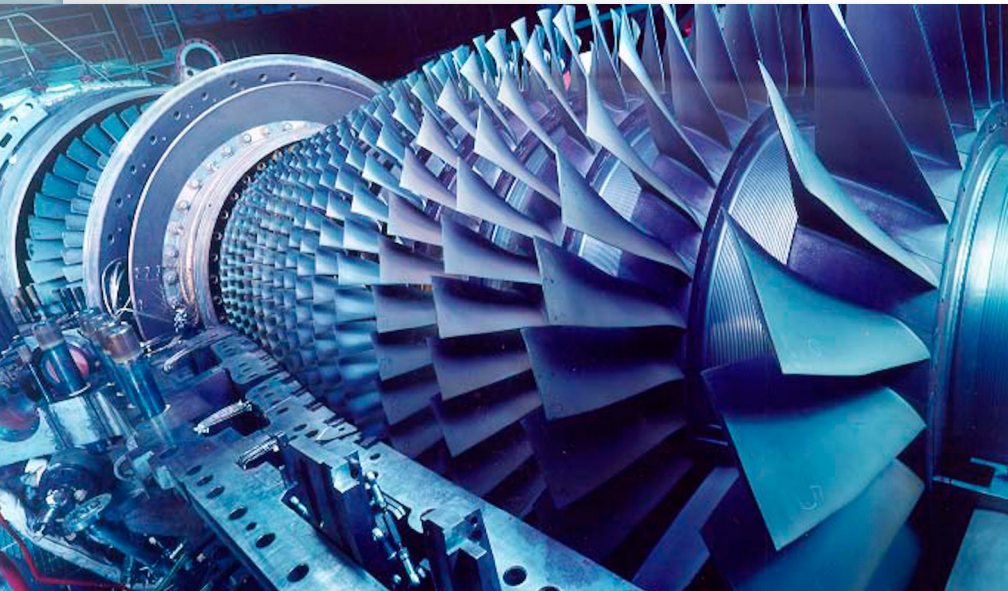


Photo: <http://sdipattorney.com/patent-research-counseling/>

REQUIREMENTS ON RAVENOL TURBO OIL T32 AND RAVENOL TURBO OIL T46 ACCORDING TO SIEMENS TLV 9013 05:

According to TLV 9013 05 these are turbine oils with active ingredients to increase the anti-corrosion and ageing resistance properties. Turbine oils that are used to lubricate transmissions may also contain active ingredients to increase the loading capacity and reduce the wear.

Selected requirements Siemens TLV 9013 05 compared to DIN 51515 Part 2 (L-TG):

REQUIREMENT TLV 9013 05	RESULT	TEST METHOD	STRICTER COMPARED TO DIN STANDART
AGEING BEHAVIOUR: TIME UNTIL NN INCREASES BY 2.0 MG KOH/G	≥ 3000 h	DIN EN ISO 4263-1	+ 16 %
AIR SEPARATING CAPACITY AT 50°C	≥ 200	DIN EN ISO 4263-1	+ 25 %
FLASH POINT	> 200 °C	DIN ISO 2592	+ 8 %

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Photo: <http://eliteton.ru/download/26352/1920x1200/>

PROPERTIES

Chemical composition

Turbine oil is, as a rule a mineral oil on a paraffin base, consisting of a mixture of saturated hydrocarbons. A defined composition cannot be given due to the number of different components. The physical nature serves as the selection criteria for the use as turbine oil. The additives must not have any negative effects on the materials of the oil systems. They may not contain any metal-organic compounds (e.g. organic zinc compounds).

AREAS OF USE OF RAVENOL TURBO OIL T32 AND RAVENOL TURBO OIL T46

RAVENOL Turbo Oil T32 and **RAVENOL Turbo Oil T46** are used in stationary gas turbines and steam turbines in public energy utilities and energy producers as well as in machines powered by electric or steam turbines, such as generators, compressors, pumps and transmissions in industrial plants with large machine parks, such as e.g. in the automobile industry or at machine manufacturers.

RAVENOL Turbo Oil T32 and **RAVENOL Turbo Oil T46** are also suited for use as lubricants of hydraulic systems, compressors, transmission sets and bearings.

Based on extensive tests and evaluations we can say that our oils **RAVENOL Turbo Oil T32** and **RAVENOL Turbo Oil T46** not only meet the requirements of DIN 51515 Part 2 (L-TG) but even outperform them. They even comply with the much more stringent stricter limit values of the Siemens standard TLV 9013 05.

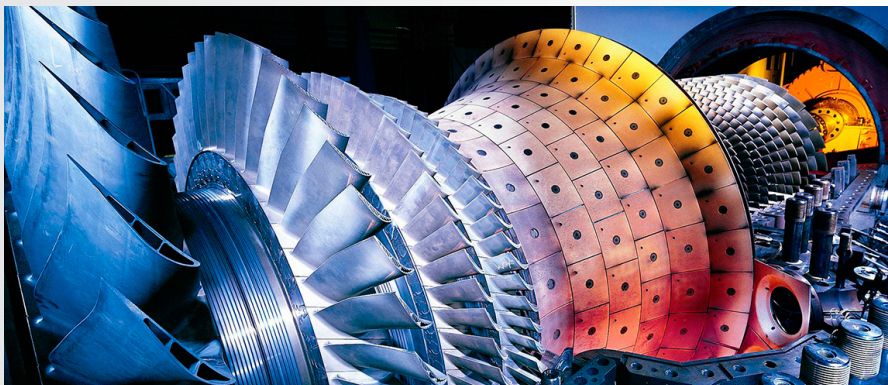


Photo: <http://rostec.ru/de/news/4513615>

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2. RAVENOL Turbo Oil T46

ARTICLE NUMBER: 1331115

SPECIFICATIONS:

DIN 51515 PART 1 (L-TD), PART 2 (L-TG)

APPROVALS:

SIEMENS TLV 9013 04 AND TLV 9013 05

RECOMMENDATIONS:

MIL-L-17672 D, BRITISH STANDARD BS 489, GENERAL ELECTRIC GEK 46568 A/C, CEGB STANDARD 207001, BROWN BOVERI HTGD 90117, U.S. STEEL 120, WESTINGHOUSE ELECTRIC CORP. TURBINE OIL SPEC., ALSTOM HTGD 90117 V0001 S, SOLAR ES 9 224 REQUIREMENTS FOR GAS TURBINE OILS CLASS II (ISO VG 46)

1331115-020	1 x 20 L	Canister
1331115-060	1 x 60 L	Drum
1331115-208	1 x 208 L	Drum