

Technical purchasing specification TLV 9013 04 is valid for purchasing **turbine oils with normal thermal stability** for Siemens steam and gas turbosets.

Turbine oils that were tested and approved according to TLV 9013 04 are shown in the following approval list. The approval does not release the supplier from his responsibility for the quality of the product.

Attention: The selection must be made in consideration of the viscosity class determined for the turbo set. Turbo sets with gearboxes need special turbine oils suitable for gearbox lubrication.

Dates about the viscosity class and the suitability for gearbox turbosets can be found in the following table. Turbine oils for use in turbines with gearboxes may also be used for turbosets without a gearbox.

*Die Technische Liefervorschrift TLV 9013 04 gilt für die Beschaffung von **Turbinenölen mit normaler thermischer Stabilität** für Siemens Dampf- und Gasturbosätze.*

Turbinenöle, die nach TLV 9013 04 untersucht und freigegeben wurden, sind in der folgenden Freigabeliste aufgeführt. Die Freigabe entbindet den Lieferanten nicht von der Verantwortung für die Qualität seines Produktes.

Achtung: Bei der Auswahl eines Öls muss die für den jeweiligen Turbosatz festgelegte Viskositätsklasse beachtet werden. Bei Turbosätzen mit Getriebe muss ein Getriebeturbinenöl ausgewählt werden.

Die jeweilige Viskositätsklasse und die Angabe, ob es sich um ein Getriebeturbinenöl handelt, finden sich in der folgenden Tabelle. Getriebeturbinenöle können auch in Turbinen ohne Getriebe eingesetzt werden.

manufacturer / supplier <i>Hersteller / Lieferant</i>	product name <i>Produktbezeichnung</i>	ISO VG class <i>ISO VG-Klasse</i>	for turbosets with gearbox <i>für Turbosätze mit Getriebe</i>
Addinol	TL 46	46	
Addinol	TL 32	32	
Addinol	Addinol Turbine Oil MT 46	46	x
Addinol	TP 32	32	x
Addinol	TP 46	46	x
Adnoc	Adnoc GII Turbine Oil 32	32	
Adnoc	Adnoc GII Turbine Oil 46	46	
Adnoc	Adnoc Turbine Oil 32	32	
Adnoc	Adnoc Turbine Oil 46	46	
Adnoc	Adnoc Turbine Oil E32	32	
Adnoc	Adnoc Turbine Oil E46	46	
Apar Industries Ltd.	Power Turbo 32	32	
Apar Industries Ltd.	Power Turbo 46	46	
Apar Industries Ltd.	Power Turbo AW 32	32	x
Apar Industries Ltd.	Power Turbo AW 46	46	x
Behran Oil Co.	Behran Turbine Oil 32	32	
Behran Oil Co.	Behran Turbine Oil 46	46	
Behran Oil Co.	Behran Turbine Oil 32 EP	32	x
Behran Oil Co.	Behran Turbine Oil 46 EP	46	x
Bharat Petroleum	MAK Turbol 32	32	
Bharat Petroleum	MAK Turbol 46	46	
Bharat Petroleum	MAK Turbol EP 32	32	x
Bharat Petroleum	MAK Turbol EP 46	46	x
BP	Turbinol X 32	32	
BP	Turbinol X 46	46	
BP	Turbinol X-EP 32	32	x
BP	Turbinol X-EP 46	46	x

List of approved turbine oils according to TLV 9013 04
Liste der freigegebenen Turbinenöle nach TLV 9013 04

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Caltex	Caltex Regal R&O 32	32	
Caltex	Caltex Regal R&O 46	46	
Caltex	Caltex Regal EP 32	32	x
Caltex	Caltex Regal EP 46	46	x
Caltex	Caltex Regal Premium EP 32	32	x
Caltex	Caltex Regal Premium EP 46	46	x
Castrol	Castrol Product HS 0009	46	x
Castrol	Perfecto T 32	32	
Castrol	Perfecto T 46	46	
Castrol	Perfecto AWT 32	32	x
Castrol	Perfecto AWT 46	46	x
Castrol	Perfecto HPT 32	32	
Castrol	Perfecto HPT 46	46	
Castrol	Perfecto X 32	32	
Castrol	Perfecto X 46	46	
Castrol	Perfecto XEP 32	32	x
Castrol	Perfecto XEP 46	46	x
Castrol	Turbine Oil 32	32	
Castrol	Perfecto XPT 32	32	
Castrol	Perfecto XPT 46	46	
Castrol	Perfecto XPG 32	32	x
Castrol	Perfecto XPG 46	46	x
C&C Oil Company	Precision ISO-32 Turbine Oil	32	
Cepsa	Turbinas EP 32	32	x
Cepsa	Turbinas EP 46	46	x
Chevron	GST Oil ISO 32	32	
Chevron	GST Oil ISO 46	46	
Chevron	GST EP Oil ISO 32	32	x
Chevron	GST EP Oil ISO 46	46	x
Chevron	GST Premium 32	32	
Chevron	GST 2300 ISO 32	32	x
Chevron	GST 2300 ISO 46	46	x
Chevron	Caltex Regal EP 32	32	x
Chevron	Caltex Regal EP 46	46	x
Chinese Petroleum Corp.	Turbine Oil SR32	32	
Chinese Petroleum Corp.	Turbine Oil SR46	46	
Eni	Agip OTE 32	32	
Eni	Agip OTE 46	46	
Eni	Agip OTE 32 GT	32	x
Eni	Agip OTE 46 GT	46	x
ENOC	Vortex 32	32	x
ENOC	Vortex 46	46	x
ENOC	Vortex GT-2 32	32	
ENOC	Vortex GT-2 46	46	
ExxonMobil	Mobil DTE 732	32	
ExxonMobil	Mobil DTE 746	46	
ExxonMobil	Mobil DTE 797	32	
ExxonMobil	Mobil DTE 798	46	

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ExxonMobil	Mobil DTE 832	32	x
ExxonMobil	Mobil DTE 846	46	x
ExxonMobil	Mobil SHC 824	32	x
ExxonMobil	Mobil SHC 825	46	x
ExxonMobil	Teresstic T 32	32	
ExxonMobil	Teresstic T 46	46	
ExxonMobil	Teresstic EP 46	46	x
ExxonMobil	Teresstic GTC 32	32	
Fergananeft-Teorgsintez (LMZ)	TP-22S	32	
Fuchs Europe Schmierstoff GmbH	Renolin TDL 46	46	
Fuchs Europe Schmierstoff GmbH	Renolin Eterna 32	32	x
Fuchs Europe Schmierstoff GmbH	Renolin Eterna 46	46	x
Fuchs Lubricants Co.	Renolin HC EP 32	32	
Fujian Laike Petrochemical	Laike Turbine Oil 32	32	
Galp	Galp Turbinoil 32	32	x
Galp	Galp Turbinoil 46	46	x
Gazpromneft Lubricants	Gazpromneft Turbine Oil 32	32	
GS Caltex Corporation	GS Turbine Oil 32	32	
GS Caltex Corporation	GS Turbine Oil 46	46	
Gulf Oil International	Gulf Crest EP 32	32	x
Gulf Oil International	Gulf Crest EP 46	46	x
Gulf Oil International	Gulf Crest 46	46	
HPC (Hindustian Petroleum Corp.)	Turbinol 32	32	
HPC (Hindustian Petroleum Corp.)	Turbinol 46	46	
HPC (Hindustian Petroleum Corp.)	Turbinol XT 32	32	x
HPC (Hindustian Petroleum Corp.)	Turbinol XT 46	46	x
Idemitsu	Daphne Super Turbine ME32	32	x
Idemitsu	Daphne Super Turbine MG32	32	
Idemitsu	Daphne Super Turbine MG46	46	
Imperial Oil	Oil 1893	32	x
Imperial Oil	Oil 2062	46	x
Indian Oil Corp. (IOC)	Servoprime 32	32	
Indian Oil Corp. (IOC)	Servoprime 46	46	
Indian Oil Corp. (IOC)	Servoprime 32G	32	x
Indian Oil Corp. (IOC)	Servoprime 46G	46	x
Indian Oil Corp. (IOC)	Servoprime 32T	32	x
Indian Oil Corp. (IOC)	Servoprime 46T	46	x
Interlub	Turbo RO H 32	46	
Kuwait Petroleum	Q8 van Gogh 32	32	
Kuwait Petroleum	Q8 van Gogh 46	46	
Kuwait Petroleum	Q8 van Gogh EP 32	32	x
Kuwait Petroleum	Q8 van Gogh EP 46	46	x
Kuwait Petroleum	Q8 Volta 32	32	
Kuwait Petroleum	Q8 Volta 46	46	
Kuwait Petroleum	Q8 Volta EP 32	32	x
Kuwait Petroleum	Q8 Volta EP 46	46	x
Lotos Oil SA	Remiz TG 32	32	x
Lotos Oil SA	Remiz TG 46	46	x
Lotos Oil SA	Remiz TU 32	32	
Lotos Oil SA	Remiz TU 46	46	

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Lubrication Engineers	6461 MONOLEC Turbine Oil	32	x
Lubrication Engineers	6462 MONOLEC Turbine Oil	46	x
Lubricantes de Alto Rendimiento	Prodigium 617	46	
Lukoil	Tornado T 32	32	x
Lukoil	Tornado T 46	46	x
Lukoil Lubricants	OMV power turb 32	32	
Lukoil Lubricants	OMV power turb 46	46	
Lukoil Lubricants	OMV power turb EP 32	32	x
Lukoil Lubricants	OMV power turb EP 46	46	x
Lukoil Lubricants	OMV turb TD 32	32	
Lukoil Lubricants	OMV turb TD 46	46	
Lukoil Lubricants	OMV turb HTU 32	32	x
Lukoil Lubricants	OMV turb HTU 46	46	x
Matrix	Turbine Oil A 32	32	x
Matrix	Turbine Oil A 46	46	x
MEXLUB	Turbinas AW 46	46	x
MOL-LUB	MOL Turbine 46 K	46	
Neste Oil	Neste Turbine GT 46 EP	46	x
Nippon Mitsubishi Oil	FBK Turbine 32	32	
Novo Ufimskij	TP-22B	32	
Orlen Oil	Turbinex TU 32	32	x
Orlen Oil	Turbinex TU 46	46	x
Orlen Oil	Turbinex TG 32	32	x
Orlen Oil	Turbinex TG 46	46	x
Orlen Oil	Turbinex TG Premium 32	32	x
Orlen Oil	Turbinex TG Premium 46	46	x
Pertamina	Pertamina Turbolube 32	32	x
Pertamina	Pertamina Turbolube 46	46	x
Petrobras	Lubraxis Industrial Turbina 32	32	x
Petrobras	Lubraxis Industrial Turbina 46	46	x
Petrobras	Marbrax TR-32	32	
Petrobras	Marbrax TR-46	46	
Petro-Canada Lubricants	Turboflo 32	32	
Petro-Canada Lubricants	Turboflo 46	46	
Petro-Canada Lubricants	Turboflo XL 32	32	
Petro-Canada Lubricants	Turboflo XL 46	46	
Petro-Canada Lubricants	Turboflo EP 32	32	x
Petro-Canada Lubricants	Turboflo EP 46	46	x
Petrochina	KunLun KTL Turbine Oil 32	32	
Petrochina	KunLun KTL Turbine Oil 46	46	
Petrochina	KunLun KTL EP 32	32	x
Petrochina	KunLun KTL EP 46	46	x
Petrochina	KunLun KTG Gas Turbine Oil 32	32	x
Petrochina	KunLun KTG Gas Turbine Oil 46	46	x
Petrochina	Turbine Oil KTG/S 32	32	x
Petrochina	Turbine Oil KTG/S 46	46	x
Petrogal	Galp Turbinoil 46	46	
Petrol Ofisi	PO Turbine Oil TX 32	32	
Petrol Ofisi	PO Turbine Oil TX 46	46	

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Petronas	Jenteram HC Extra 46	46	x
Phillips 66	Diamond Class™ Turbine Oil 32	32	
Phillips 66	Diamond Class™ AW Turbine Oil 32	32	x
Phillips 66	Turbine Oil 32	32	
Phillips 66	Turbine Oil 46	46	
Phillips 66	Ultra Clean Turbine Oil 32	32	
Phillips 66	Ultra Clean Turbine Oil 46	46	
Prista Oil	Prista tp-32	32	
Prista Oil	Prista tp-46	46	
Prista Oil	Prista tps-32	32	x
Prista Oil	Prista tps-46	46	x
PTT	PTT Terbin EP 32	32	x
PTT	PTT Terbin T 32	32	
QALCO	Turbine Oil T 46	46	x
Raj Petro Specialities	Raj Super Turbo S 32	32	x
Raj Petro Specialities	Raj Super Turbo S 46	46	x
Repsol	Repsol Turboaries ISO-32	32	
Repsol	Repsol Turboaries ISO-46	46	
Repsol	Aries Turbogas ISO 32	32	x
Repsol	Aries Turbogas ISO 46	46	x
Repsol	Aries Turbogas CC-32	32	x
Sasol Oil	Sasol TCO 46	46	
Sasol Oil	Sasol TCO 46 EP	46	x
Savita Chemicals Ltd.	Daphne Super Turbine Fluid AW 46	46	x
Sinopec Corp.	Sinopec Greatwall Gas Turbine Oil 32	32	x
Sinopec Corp.	Sinopec Greatwall Gas Turbine Oil 46	46	x
Sinopec Corp.	Sinopec Greatwall Turbine Oil TSA 32 (Grade A)	32	
Sinopec Corp.	Sinopec Greatwall Turbine Oil TSA 46 (Grade A)	46	
Sinopec Corp.	Sinopec Greatwall Turbine Oil TSA/LF 32	32	
Sinopec Corp.	Sinopec Greatwall Turbine Oil TSA/LF 46	46	
Sinopec Corp.	Sinopec Greatwall Turbine Oil TSE/LF 32	32	x
Sinopec Corp.	Sinopec Greatwall Turbine Oil TSE/LF 46	46	x
Shell	Turbo Oil CC 32	32	x
Shell	Turbo Oil CC 46	46	x
Shell	Turbo Oil T 32	32	
Shell	Turbo Oil T 46	46	
Shell	Turbo Oil S 32	32	x
Shell	Turbo Oil S 46	46	x
Shell	Turbo Oil GT 32	32	
Shell	Turbo Oil GT 46	46	
Shell	Turbo Oil GT-EP	32	x
Shell Tongyi	Tongyi Remoto EP 32 Turbine Oil	32	x
Shell Tongyi	Tongyi Remoto EP 46 Turbine Oil	46	x
SK Lubricants	SK Turbine Oil 32	32	
SK Lubricants	SK Turbine Oil 46	46	
SK Lubricants	SK Turbine Oil GT 32	32	
SRS Schmierstoff Vertrieb	SRS Wiolan GT 32	32	
SRS Schmierstoff Vertrieb	SRS Wiolan GT 46	46	

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Statoil	TurbWay 32	32	x
Statoil	TurbWay 46	46	x
Statoil	TurbWay GT 32	32	x
Statoil	TurbWay GT 46	46	x
Teboil	Teboil Turbine Oil XOR 46	46	
Texaco	Texaco Regal EP 32	32	x
Texaco	Texaco Regal EP 46	46	x
Texaco	Texaco Regal Premium EP 32	32	x
Texaco	Texaco Regal Premium EP 46	46	x
Total	Preslia 32	32	x
Total	Preslia 46	46	x
Total	Preslia GT 32	32	x
Total	Preslia GT 46	46	x
YPF	Turbina R 32	32	
YPF	Turbina R 46	46	
YPF	Turbina EP 32	32	x
76 Lubricants Company	76 Turbine Oil 32	32	
76 Lubricants Company	76 Turbine Oil 46	46	
76 Lubricants Company	76 Turbine Oil XD 32	32	
76 Lubricants Company	76 Turbine Oil XD 46	46	