



H&R Group



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# SRS Lubricants

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Motor Oils  
Gear Oils  
Industrial Oils  
Marine Oils





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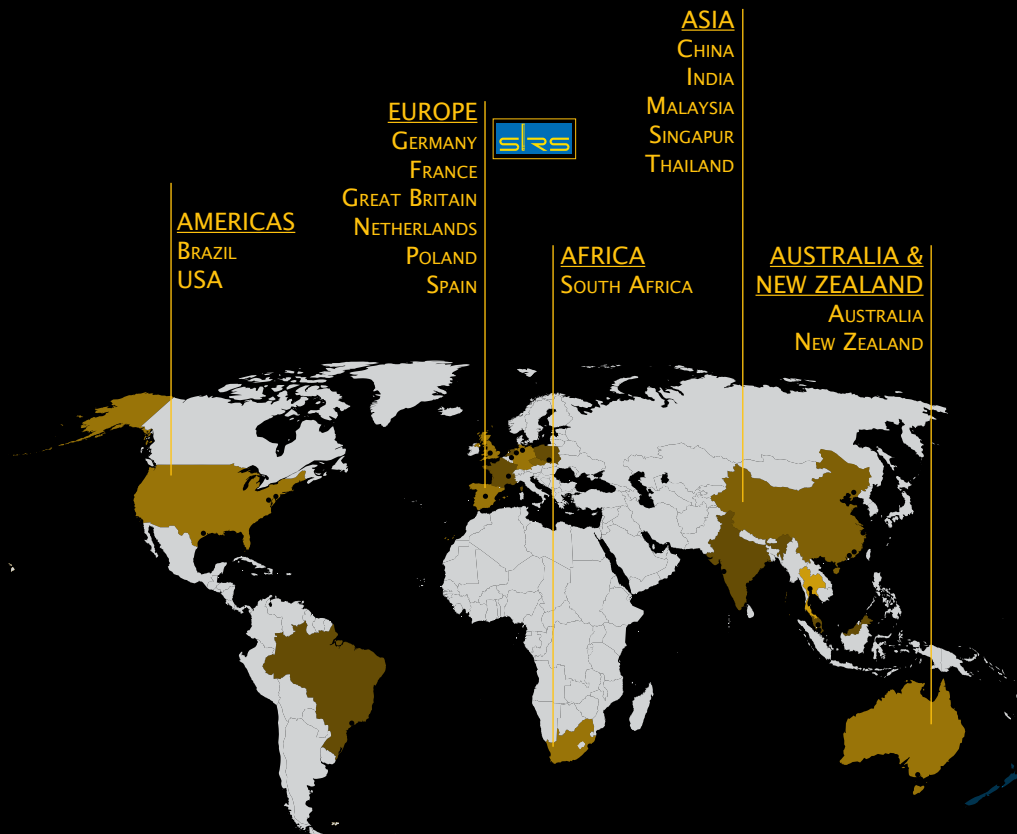


# 00 ABOUT US

The H&R Group in Germany, together with its associated companies, forms a worldwide network of refineries and special products plants meeting customer requirements for white oils, petroleum jellies, wax emulsions, paraffin waxes, lubricants and many other products.

H&R Group is a trusted worldwide partner to the lubricants industry and continues to invest in refineries to maintain high service levels and quality. The SRS lubricants from our partner refinery H&R ChemPharm GmbH – located at Salzbergen, Germany – are marketed worldwide by TUDAPETROL KG. The H&R ChemPharm quality standards meet all the requirements of the leading petrol station company in Germany.

SRS motor oils meet the requirements of the latest generation of engines and have been approved for use by well-known motor car manufactures. They keep the engine clean, protect it reliably from black sludge build-up and thereby greatly reduce engine wear. Our engine and gearbox oils for cars and commercial vehicles are distributed under the SRS brand name.



# 01 OIL BASICS

## ABOUT SAE AND VISCOSITY

The Society of Automotive Engineers (SAE) has established a numerical code system for grading motor oils according to their viscosity characteristics. SAE viscosity gradings include the following, from low to high viscosity: 0, 5, 10, 15, 20, 25, 30, 40, 50 or 60. The numbers 0, 5, 10, 15 and 25 are suffixed with the letter W, designating they are "winter" or cold-start viscosity, at lower temperature. The number 20 comes with or without a W, depending on whether it is being used to denote a cold or hot viscosity grade. The document SAE J300 defines the viscometrics related to these grades.

Kinematic viscosity is graded by measuring the time it takes for a standard amount of oil to flow through a standard orifice, at standard temperatures. The longer it takes, the higher the viscosity and thus higher SAE code.

The SAE has a separate viscosity rating system for gear, axle, and manual transmission oils, SAE J306, which should not be confused with engine oil viscosity. The higher numbers of a gear oil (e.g., 75W-140) do not mean that it has higher viscosity than an engine oil.

In anticipation of new lower engine oil viscosity grades, to avoid confusion with the "winter" grades of oil the SAE adopted SAE 16 as a standard to follow SAE 20 instead of SAE 15. By choosing to call the new viscosity grade SAE 16, we established a precedent for future grades, counting down by fours instead of fives: SAE 12, SAE 8, SAE 4."[9].

## SPECIFICATIONS

Specifications indicate the performance of the oil and whether they have met or passed the latest tests, or whether the formulation is effectively obsolete or out of date. The most important specifications are API (American Petroleum Institute) and ACEA (Association des Constructeurs Europeens d'Automobiles):

### API

This is the more basic as it is split (for passenger cars) into two categories. S = Petrol and C = Diesel, most oils carry both petrol 'S' and diesel 'C' specifications.

### ACEA

This is the European equivalent of API (US) and is more specific in what the performance of the oil actually is. A = Petrol, B = Diesel and C = Catalyst compatible or low SAPS (Sulphated Ash, Phosphorus and Sulphur).





Fuel Economy = Fuel economy oils help to improve economy through lower fuel consumption.



LOW SAPS = Low Sulphat Ash, Phosphorus + Sulphur.  
These oils have been formulated with lower levels of Sulphated Ash, Phosphorus and Sulphur than conventional oils.

The background for the implementation of motor oils with low fuel ash (Low SAPS) is the European Legislation. Future new vehicles (cars and utility vehicles) have to comply with the emissions standard Euro IV from January respectively October 2005 and the emissions standard Euro V from 2008. The emissions standards which have to be complied with then (et al. nitrogen oxides, particles and sooty particles) are significantly reduced especially for Diesel vehicles.



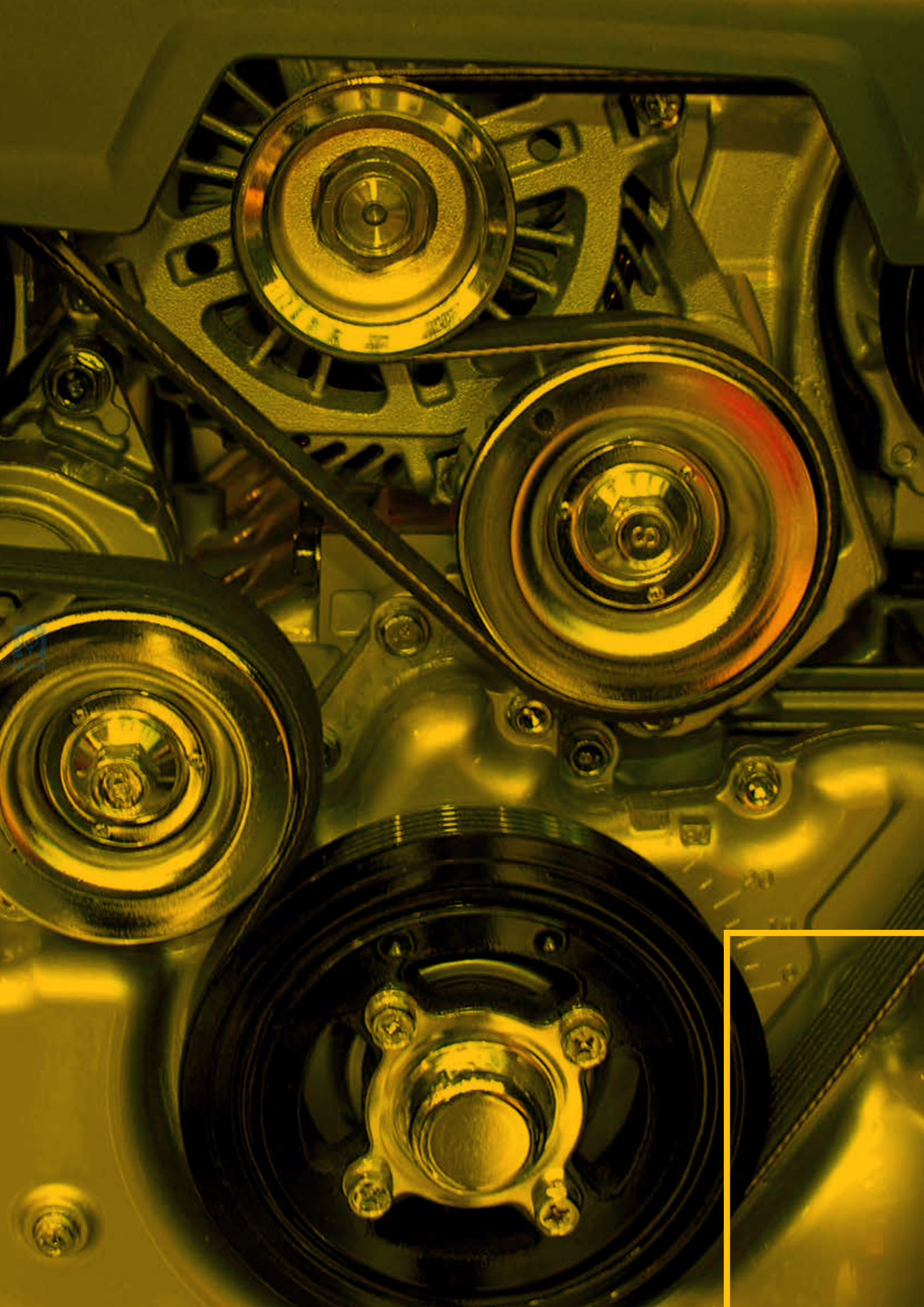
The benefits are numerous: Very good flow properties at low temperatures and therefore better lubrication during extreme cold weather starts. Longer change intervals. Excellent protection against ash and other deposit contaminants. Better chemical and shear stability. Resistance to oxidation.



Extended oil change intervals. Please observe the OEM specifications for motor oil.



Zinc-free = The EP additives used in these products are free of zinc which has a low impact on waste water.







# AUTOMOTIVE LUBRICANTS

# 02 AUTOMOTIVE LUBRICANTS

## SRS ALL PURPOSE MULTI-VISCOSITY ENGINE OILS

PRODUCT DENOMINATION	STANDARDS			APPLICATION / APPROVALS
	SAE	ACEA	API	
Leichtlauf-Motorenöl O-1178	0W-30		CF-4/SF	Multigrade engine oil with Army release TL 9150-0080/3, Nato-Code O-1178. Also for 4-stroke diesel engines in motor cars, vessels, engineer and general field equipment
SRS Cargolub TFE	10W-40	E7 A3/B4	CI-4 DHL-1	High-performance low friction engine oil for the mixed vehicle fleet. DTFR 15B110 (MB 228.3), DTFR 13D100 (MB 229.1), Volvo VDS-3, Renault VI RLD 2, Mack EON-N / EO-M Plus, MTU MTL 5044 Typ 2, Deutz DQC III-18, Voith Retarder Type A
SRS Multi-Rekord top	15W-40	E7 A3/B4	CI-4/SL	High-performance universal engine oil for the mixed vehicle fleet. DTFR 15B110 (MB 228.3), Deutz DQC III-18, Volvo VDS-3 (STD 417-0002), Renault VI RLD/RLD-2, Mack EO-N, MTU MTL 5044 Type 2
SRS Multi-Rekord plus	15W-40	A3/B3	CG-4/SL	High-performance, all purpose engine oil for the mixed vehicle fleet. MTU MTL 5044 Type 2
SRS Motorenöl O-236	15W-40	E3 A3/B3	CH-4/SJ	Multigrade engine oil with German Army release TL 9150-0063/6, Nato-Code O-236. MTU MTL 5044 Typ 2, MTU DDC BR 2000 / 4000, MTU MTL 5051. For the lubrications of all kind of combustion engines especially 4-stroke diesel engines in land and sea vehicles and stationary equipment
SRS Rekord	15W-40	E2 A2/B2	SJ/CF-4	Multigrade engine oil for use in diesel and gasoline engines. MB-Approval 228.1, MB Blatt 229.1, MAN 271, Volvo VDS, MTU MTL 5044 Typ 1, Allison C-4
SRS Wiolamit 15W-40	15W-40		SF/CD	Multigrade engine oil for diesel and gasoline engines





SRS MULTI VISCOSITY ENGINE OILS FOR PASSENGER CARS

PRODUCT DENOMINATION	SAE	ACEA	API	APPLICATION / APPROVALS
SRS VIVA 1 ecosynth	0W-40	A3/B4	SM/CF	Fully synthetic, fuel saving heavy-duty smooth running engine oil. Ensures very high wear protection. MB-Approval 229.3, VW 502 00 / 505 00, BMW Longlife-01
SRS VIVA 1 special LMS	5W-30	C1		Low SAPS passenger car low friction engine oil. Mazda, Mitsubishi, Ford-WSS M2C 934-B, Peugeot, Citroen, Jaguar Land Rover STJLR.03.5005
SRS VIVA 1 special F eco	5W-20	C5, A1/B1	SN	Special high-performance low friction engine oil for Ford EcoBoost engines. Ford WSS-M2C 948 B, Jaguar Land Rover STJLR.03.5004
SRS VIVA 1 special V eco	0W-20	C5		Special high performance low friction engine oil. Volvo VCC RBS0-2AE
SRS VIVA 1 special F plus	5W-30	A5/B5		Special high-performance low friction engine oil with lowered high-temperature viscosity. Ford WSS-M2C 913D / 913C, Jaguar, Land Rover, Renault RN 0
SRS VIVA 1 SLV top	5W-30	C3	SP/SN PLUS	Special-smooth running engine oil for passenger cars of the newest technology. VW-Norm 504 00 / 507 00, MB-Approval 229.52, Porsche C30, BMW Longlife-04
SRS VIVA 1 topsynth alpha LA	5W-30	C3	SN/CF	Longlife high-performance engine oil. VW-Norm 505 01 / 505 00, MB-Approval 229.52 / 229.51 / 229.31, BMW Longlife-04
SRS VIVA 1 special R	5W-30	C3/C4		Special high-performance low friction engine oil. Renault RN 0720, MB 226.51
SRS VIVA 1 longlife	5W-30	A3/B4	SL	High-performance low friction engine oil. VW-Norm 502 00 / 505 00, MB-Approval 229.5, BMW Longlife-01, Renault RN 0700, Opel GM-LL-A-025 / -B-025
SRS VIVA 1 topsynth	5W-40	A3/B4	SN/CF	High-performance low friction engine oil. VW-Norm 502 00 / 505 00, MB-Approval 229.3, MB-Blatt, BMW Longlife-01 / Longlife-98, Opel GM-LL-B-025 (Diesel), Porsche A40, PSA B71 2296, Renault RN 0700 / RN 0710
SRS VIVA 1	10W-40	A3/B4	SN/CF	High-performance low friction engine oil. MB-Approval 229.1, VW-Norm 501 01 / 505 00
SRS Primalub Alpha	10W-40	A3/B3	SL/CF	Low-friction engine oil. MB-Approval 229.1, VW 501 01 / 505 00 Performance



# 02 AUTOMOTIVE LUBRICANTS

## SRS MULTI VISCOSITY ENGINE OILS FOR COMMERCIAL VEHICLES

PRODUCT DENOMINATION	STANDARDS			APPLICATION / APPROVALS
	SAE	ACEA	API	
SRS Cargolub TLS plus	5W-30	E6/E7/E9	CJ-4/SN	USHPD-smooth running engine oil for Euro V and VI engines. MB-Approval 228.31 / 228.51, MB-Sheet 235.28, MAN M 3677 / 3477 / 3271-1, MTU MTL 5044 Typ 3.1, MTU DDC BR 2000 / 4000, Volvo VDS-3 / VDS 4 / CNG, Deutz DQC IV-10 LA, Renault VI RXD / RLD-2 / RLD-3 / RGD, Scania Low Ash, Scania LDF-4 / Mack EO-M plus / EO-N / EO-O Premium Plus, Cummins CES 20081, Caterpillar ECF-3 / -2 / -1a
SRS Cargolub TFL	5W-30	E4/E7	CI-4 DHD 1	USHPD-smooth running engine oil for longest oil retention times. High fuel savings. MB-Approval 228.5, MAN M 3277 / 3377, Renault VI RXD / RLD-2, DQC IV-10, Caterpillar ECF-2, MTU MTL 5044 Typ 3, DDC BR 2000 / 4000, Mack EO-M Plus / EO-N, Volvo VDS-3, DAF
SRS Turbo-Rekord plus FE	10W-40	E9	CJ-4/SN	SHPD-smooth running engine oil for commercial vehicles for Euro V and Euro VI, for heavy duty commercial vehicle diesel engines. MB-Approval 228.31, MAN M 3575, Volvo VDS 4, Caterpillar ECF-3 / -2 / -1a, Renault VI RLD-3, Deutz DQC III-10 LA, Cummins CES 20081, MTU MTL 5044 Typ 2.1, MTU DDC BR 2000 / 4000, Detroit Diesel DDC 93K218, Mack EO-O Premium Plus
SRS Cargolub TLA plus	10W-40	E6/E7/E9	CK-4 CI-4 plus	Premium low SAPS engine oil based on modern synthesis technology for commercial vehicles with optimised exhaust-emission. DTFR 15C120 (MB 228.51, DTFR 15C110 (MB 228.52), DTFR 13D110 (MB 235.28), MAN M 3775, Deutz DQC IV-18 LA, Volvo VDS-4.5 (STD 417-0003), Renault VI RLD-3, Mack EO-S 4.5, MTU MTL 5044 Typ 3.1, Voith Retarder Type B
SRS Cargolub Leichtlaufmotorenöl LA	10W-40	E6/E7	CI-4	Low SAPS UHPD low friction engine oil for commercial vehicles. MB-Approval 228.51, MAN M 3477 / 3271-1, Volvo VDS-3, MTU MTL 5044 Typ 3.1, MTU DDC BR 2000 / 4000, Deutz DQC III-10 LA, Mack EO-N, Renault VI RLD-2 / RGD / RXD, Caterpillar ECF-1a, Cummins CES 20076 / 77, DAF
SRS Leichtlaufmotorenöl O-1180	10W-40	E6	CI-4	Low SAPS UHPD multigrade engine oil with German Army release for engines with or without exhaust after-treatment system. German Army Approval TL 9150-0107/1, Nato-Code O-1180





SRS MULTI VISCOSITY ENGINE OILS FOR COMMERCIAL VEHICLES

PRODUCT DENOMINATION	STANDARDS			APPLICATION / APPROVALS
	SAE	ACEA	API	
SRS Cargolub TFG ultra	10W-40	E4/E7	CF	High performance low friction engine oil for commercial vehicles. Scania LDF-3, DTFR 15B120 (MB 228.5), DTFR 13D10 (MB 235.28), MAN M 3277, Volvo VDS-3 (STD 417-0002), Renault VI RLD-2, Mack EO-N, EO-N-PP-03, MTU MTL 5044 Type 3, Deutz DQC IV-18, Voith Retarder Type B
SRS Cargolub TFG plus	10W-40	E4/E7	CI-4	USHPD-smooth running engine oil for longest oil retention times. Applicable year-round. DTFR 15B120 (MB 228.5), MAN M 3277, MTU MTL 5044 Type 3, Deutz DQC III-18, Volvo VDS-3 (STD 417-0002), Renault VI RLD-2, Mack EO-N
SRS Cargolub TFG	10W-40	E4/E7	CI-4	UPHD low friction engine oil for commercial for the mixed fleet. MB-Approval 228.5, MAN M 3277 / 3377, MTU MTL 5044 Typ 3, MTU DDC BR 2000/4000, Volvo VDS-3, Renault VI RXD / RLD-2, Mack EO-M plus / EO-N, Deutz DQC IV-10, Caterpillar ECF-2, -1a, Cummins CES 20078, Detroit Diesel 93K215
SRS Turbo-Rekord plus	15W-40	E9	CJ-4/SN	SHPD oil for turbo diesel engines with extremely long retention times. MB-Approval 228.31, MAN M 3575, MTU MTL 5044 Typ 2.1, MTU DDC BR 2000 / 4000, Renault VI RLD-3, Volvo VDS-4, Mack EO-O Premium Plus, Caterpillar ECF-3 / -2 / -1a, John Deere JDQ 78X, Deutz DQC III-10 LA, Cummins CES 20081
SRS Turbo-Rekord top FE	10W-40	E9/E7/E6	CJ-4	Premium low SAPS engine oil for modern Euro V and Euro VI engines. DTFR 15C110 (MB 228.51), DTFR 13D110 (MB 235.28), Volvo VDS-4 (STD 417-0001), Renault VI RLD-3, Mack EO-O Premium Plus, Deutz DQC IV-10 LA, MTU MTL 5044 Typ 3.1, Voith Retarder Type B
SRS Turbo-Rekord	15W-40	E7	CI-4	HPD oil for turbo diesel engines with extremely long retention times. MB-Approval 228.3, MAN M 3275-1, Volvo VDS-3, Deutz DQC III-10, Caterpillar ECF-2 / -1a, Renault VI RLD / RLD-2, MTU MTL 5044 Typ 2, MTU DDC BR 2000 / 4000, Cummins CES 20071 / 72 / 76 / 77, DAF, Mack EO-M Plus / EO-N



# 02 AUTOMOTIVE LUBRICANTS

SRS MARINE OILS				
PRODUCT DENOMINATION		STANDARDS		APPLICATION / APPROVALS
	SAE	ACEA	API	
SRS MA-HDS 40	40			Marine diesel engine oil (TBN 40) for plunger engines when operated with sulphured heavy fuel (up to approx. 3,5 %) at medium speed
SRS MA-MDO 40	40			Marine diesel engine oil (TBN 16) for plunger engines at medium speed and high engine cleanness
SRS Motorenöl O-278	40	E7	CI-4	Motor oil (TBN 11) for lubrication of combustion engines of marine vessels and naval equipment. German Army Approval TL 9150-0031/5, MTU 5044 Typ 2, MTU DDC BR 2000/4000
SRS Rekord	10W to 50		CF/CF-2/ SF	Monograde engine oil for highly stressed ship engines. MTU MTL 5044 Typ 1, MTU DDC
SRS Rekord plus	30, 40	E7	CI-4	Heavy-duty monograde engine oil for highly stressed ship engines with long oil retention times. MTU MTL 5044 Typ 2, MTU DDC BR 2000 / 4000
SRS Turbo-Rekord	15W-40	E7	CI-4	SHPD-oil for diesel ship engines with extremely long oil retention times. MTU MTL 5044 Typ 2, MTU DDC BR 2000 / 40
SRS Wiolan O-262	80W ISO VG- 100			Gear oil for lubrication of heavy-duty gear drives as e.g. ship propulsion gears. German Army Approval TL 9150-0105 / 3

SRS 4-STROKE OILS FOR MOTORBIKES				
PRODUCT DENOMINATION		STANDARDS		APPLICATION / APPROVALS
	SAE	ACEA	API	
SRS Magnum 4T	20W-50		SG JASO MA2	4-Stroke motorcycle engine oil with very good high temperature stability and high wear protection. JASO MA 2, suitable for wet clutches
SRS Magnum 4T plus	10W-40	A3	SL JASO MA2	High performance 4-stroke motorcycle engine oil based on synthetic technology. JASO MA2, suitable for wet clutches





### SRS 2-STROKE ENGINE OILS

PRODUCT DENOMINATION	STANDARDS	APPLICATION / APPROVALS
SRS Bitaktol KX	ISO L-EGB / JASO FB / API TC	Two-cycle motor oil for blended and separate lubrication, self-mixing up to 1:50 and for separate lubrication (autolube systems)
SRS Bitaktol KS	ISO L-EGD / JASO FC/ API TC	Low smoke two-cycle motor oil, self-mixing up to 1:50. TISI, Husqvarna Chainsaw
SRS Bitaktol KS plus	ISO L-EGD / JASO FD / API TC	Fully synthetic heavy duty low smoke two-cycle motor oil, self-mixing up to 1:100, also for fresh-oil automatic operation. TISI, Husqvarna Chainsaw, Rotax Snowmobile, Piaggio



### SRS MONOGRADE ENGINE OILS

PRODUCT DENOMINATION	STANDARDS			APPLICATION / APPROVALS
	SAE	ACEA	API	
SRS Antikorrol	10W to 50		SF/CC	Oil for first operation and corrosion protection with numerous possibilities of application. MIL-L-21260C
SRS Antikorrol M plus	30	E7	CI-4	Monograde engine oil with very high corrosion protection. For emergency generators or for internal conservation. MTU MTL 5051, MTU MTL 5044 Typ 2, MTU DDC BR 2000 / 4000
SRS Rekord	10W to 50	E2	CF/CF-2/ SF	Monograde engine oil for diesel and gasoline engines. MB-Approval 228.0, MAN 270, MTU MTL 5044 Type 1, MTU DDC, ZF TE-ML 04B, Caterpillar TO-2, Allison C-4, Renk Doromat (SAE 10W)
SRS Rekord plus	30, 40	E7	CI-4	Heavy duty monograde engine oil also for highly stressed ship engines. MB-Approval 228.2, MAN 3275-2, Allison C-4, MTU MTL 5044 Type 2, MTU DDC BR 2000 / 4000
SRS Turbo-Rekord	15W-40	E7	CI-4	SHPD-oil for turbo diesel engines with extremely long oil retention times. MTU MTL 5044 Type 2, MTU DDC BR 2000 / 4000

# 02 AUTOMOTIVE LUBRICANTS

## SRS TRANSMISSION OILS FOR AUTOMATIC TRANSMISSIONS

PRODUCT DENOMINATION	STANDARDS	APPLICATION / APPROVALS
SRS Violin ATF 2543 A	Type A Suffix A (TASA)	Hydraulic transmission oil for automatic and manual transmissions as well as power steering. MB-Approval 236.2, Allison C-3, MAN 339 Typ A, Renk Doromat
SRS Violin ATF D	Dexron II D Ford Mercon	Automatic transmission fluid (ATF) according to GM Dexron II D. MB-Approval 236.1, MB-Approval DTFR 13C100, MAN 339 Typ V1 / Z1, Caterpillar TO-2, Allison C-4, Voith H55.6335.XX (G607), ZF TE-ML 04D / 14A
SRS Violin ATF III	Dexron III H Ford Mercon	Automatic transmission fluid (ATF) according to GM Dexron III H and Ford Mercon. MB-Approval 236.1, MB-Approval DTFR 13C100, MAN 339 Typ V1 / Z1, Voith H55.6335.XX (G607), Volvo 97341, ZF TE-ML 04D / 14A, Caterpillar TO-2, Allison C-4, Allison TES 389

## SRS TRANSMISSION OILS FOR MANUAL TRANSMISSIONS AND DRIVE SHAFTS

PRODUCT DENOMINATION	SAE	API	APPLICATION / APPROVALS
SRS Getriebefluid MGS	75W-90	GL-4	Multi-purpose transmission oil for heavily loaded manual transmissions with API GL-4 requirements
SRS Getriebefluid MGS plus	75W-90	GL-4	Multipurpose transmission oil for heavily loaded manual transmissions with API GL-4 requirements. MAN 341 Z2 / E2, ZF TE-ML 02B / 17A
SRS Getriebefluid MTS	75W-80	GL-4	Fully synthetic smooth running standard transmission oil for extreme oil change intervals. MAN 341 Typ VR, MB-Sheet 235.29, Eaton Manual Transmission, Voith Retarder 153.00090010, DAF (Eaton transmissions), Volvo Transmission Oil 97307
SRS Violin ML 4	80W-85 80W-90 85W-90	GL-4	EP-multi-purpose transmission oils for standard transmissions. Ensures good low temperature fluidity and high wear protection at high temperature
SRS Violin ML 4 plus	80W-85 80W-90 85W-90	GL-4	EP-multi-purpose transmission oils for standard transmissions. Ensures good low temperature fluidity and high wear protection at high temperature. MAN 341 Z2, ZF TE-ML 02B / 17A
SRS Violin Mehrzweck-Getriebeöl	80W-85 80W-90 85W-90 85W-140		Multi-purpose transmission oils for standard transmissions, transaxle systems and conventionally stressed drive axles. MB-Approval 235.1, MAN 341 Typ Z2 / E1, ZF TE-ML 16A / 17A / 19A, MIL-L-2105
SRS Violin RSG 80	80W	GL-4	Heavy-duty standard transmission oil for prolonged oil change intervals. MB-Sheet 235.5, MAN 341 Typ Z2, ZF Approval Number ZF000452, ZF TE-ML 02B / 17A







SRS TRANSMISSION OILS FOR MANUAL TRANSMISSIONS AND DRIVE SHAFTS

PRODUCT DENOMINATION	SAE	API	APPLICATION / APPROVALS
SRS Getriebefluid 5L	75W-90	GL-4 plus	Fully synthetic standard transmission oil for VW/ Audi passenger cars and other transaxle systems with longitudinally built in motors. Meets VW-Norm 501 5
SRS Getriebefluid SXL	75W-90	GL-4 GL-5 MT-1	Fully synthetic multi purpose gear oil for application in gear boxes, auxiliary drives and rear axles in commercial vehicles, agricultural and construction machinery and passenger cars. MB-Approval 235.8, MAN 341 Type Z2, MAN 342 Type S1, Scania STO 1:1 G, Scania STO 1:0, Scania STO 2:0A FS, ZF Approval number ZF001655, ZF TE-ML 02B / 05A / 12L / 12N / 16F / 17B / 19C / 21A
SRS Getriebefluid SML	80W-90	GL-4 GL-5 MT-1	High-performance multi purpose gear oil for manual transmissions and rear axles of commercial vehicles. MB-Approval 235.0, MB-Approval DTFR 12B100, MAN 341 Typ Z2, MAN 341 GA1, MAN 342 Typ M2, Scania STO 1:0, Scania STO 1:1 G, ZF Approval Number ZF000447, ZF TE-ML 02B / 05A / 12L / 12M / 16B / 17H / 19B / 21A
SRS Getriebefluid AFS	75W-90	GL-5	Fully synthetic, smooth running transmission oil for heavy duty differential- and standard transmissions - extreme oil change intervals. MB-Approval 235.8, MAN 342 Typ S1, MIL-PRF-2105 E, Volvo Transmission Oil 97312, Scania STO 1:0, DAF, TATRA, ZF TE-ML 05A / 12B / 16F / 17B, Voith Turbo 132.00374401, Voith Turbo 132.00374402, Meritor Europe (Extended Drain), Flender BA 7302-Railway gear drives
SRS Getriebefluid HGS	75W-90	GL-5	Hypoid-transmission oil especially for heavily loaded axle drives with API GL-5 requirements. MAN 342 Typ M1 / M2, ZF TE-ML 05B, 16B, 17B, 21
SRS Violin HL 5	80W-90 85W-90 85W-140	GL-5	Transmission oils for very highly stressed hypoid-teethed drive axles, bevel and spur gears, steering gears and not synchronized gearboxes with API GL-5 requirements. MIL PRF-2105D
SRS Violin Hypoid-Getriebeöl	80W-85 80W-90 85W-90 85W-140	GL-5	Hypoid-transmission oil for heavy-duty drive axles in utility vehicles and passenger cars. MB-Approval 235.0, MB-Approval DTFR 12B100, MAN 342 Typ M1, DAF, Voith 132.00374400, ZF TE-ML 16B / 16C / 16D / 17B / 19B / 21A, MIL-L-2105 C / D, Volvo 97310, Ford SQM-2C-9002-AA
SRS Violin RSH	85W-90	GL-5/LS	Special hypoid transmission oil for drive axles with limited-slip differential and with specially adapted additives to limit slip (Limited Slip = LS). Ford M2C-104A, MIL-L-2105 B / C / D, ZF TE-ML 05C / 12C / 16E / 21C



# 02 AUTOMOTIVE LUBRICANTS

## SRS OILS FOR AGRICULTURAL MACHINES

PRODUCT DENOMINATION	STANDARDS			APPLICATION / APPROVALS
	SAE	API	Allison	
SRS Primanol	15W-30 10W-30 10W-40 VG 46-100	CG-4/SF GL-4	C-4	Multi-grade multi-purpose oil (STOU) for highest loads. Applicable in motors, transmissions, hydraulics and wet brakes of agricultural machines. MF CMS M 1135 / 39 / 43 / 44 / 45, Case MS 1204 / 6 / 7 / 9, MB Blatt 227.1, Ford M2C 86 B / C, 159 B / C, 134 B / C / D, John Deere JDM J20C / J20D / J27, CNH MAT 3525 / 26, ZF TE-ML 06B (beinhaltet 06C / 06R) / 07B, Allison C-4, Speery Vickers Eaton I-280-S, Eaton M2950S, Caterpillar TO-2, Sauer Sunstrand Danfoss Hydrostatic Trans Fluid
SRS Hydrofluid A	80W 10W-30	GL-4	C-4	Universal tractor transmission oil (UTTO) for farm tractors and construction vehicles. Ideally suited for wet brakes in power shift clutches. Case MS 1206 / 7 / 9 / 10 / 30 / 1317, CNHA MAT 3505 / 06 / 09 / 10 / 25 / 26, CLAAS / Renault, John Deere JDM J20C / J20D, SAME-Deutz-Fahr, Landini MF CMS M 1135 / 41 / 43 / 45, Ford M2C 86 B / C, 134-D, New Holland FNHA 2-C-200.00, 201.00, Caterpillar TO-2, AGCO Q-186 (White Farm), AGCO Powerfluid 821XL, Allison C-4, Caterpillar TO-2, ZF TE-ML 03E / 05F / 17E / 21F, Fendt Vario, Komatsu (Wet Brake Axle), Kubota UDT, Volvo WB 101, Massey Ferguson Freigabe MF CMS M 1145
SRS Hydrofluid NB	80W-85 10W-40 VG 46-100	GL-4	C-4	Hydraulic-transmission fluid (UTTO) for tractors and construction vehicles with anti squawk properties. Caterpillar TO-2, Case MS 1206 / 7 / 9 / 10 / 30 / 1317, Allison C-4, MF CMS M 1135 / 41, John Deere JDM J20C / J20D, CNHA MAT 3505 / 06 / 09 / 10 / 25 / 26, CLAAS / Renault, Ford M2C 86 B / C, SAME-Deutz-Fahr, Fendt (außer Vario), New Holland FNHA 2-C-200.00, 201.00
SRS Getriebefluid ZFC	10W-30		C-4	Heavy-duty power transmission oil for agricultural vehicles. Caterpillar TO-4, Allison C-4, ZF TE-ML 03C / 06H / 06M, CLAAS Eccom 3.5 (CSE), Komatsu KES 07.868.1
SRS Violin 410, 430, 450	10W 30 50	GL-4/CF	C-4	Heavy-duty power transmission oils for construction vehicles. For application in highly stressed transmissions, propel drives, wet brakes and clutches. Especially for aggregates with Caterpillar TO-4 requirements. Caterpillar TO-4 and TO-4M, Caterpillar TO-2, Allison C-4, Komatsu KES 07.868.1, ZF TE-ML 03C / 07F, Sperry Vickers / Eaton M2950S, Sperry Vickers / Eaton I-280S

\* in agricultural machines

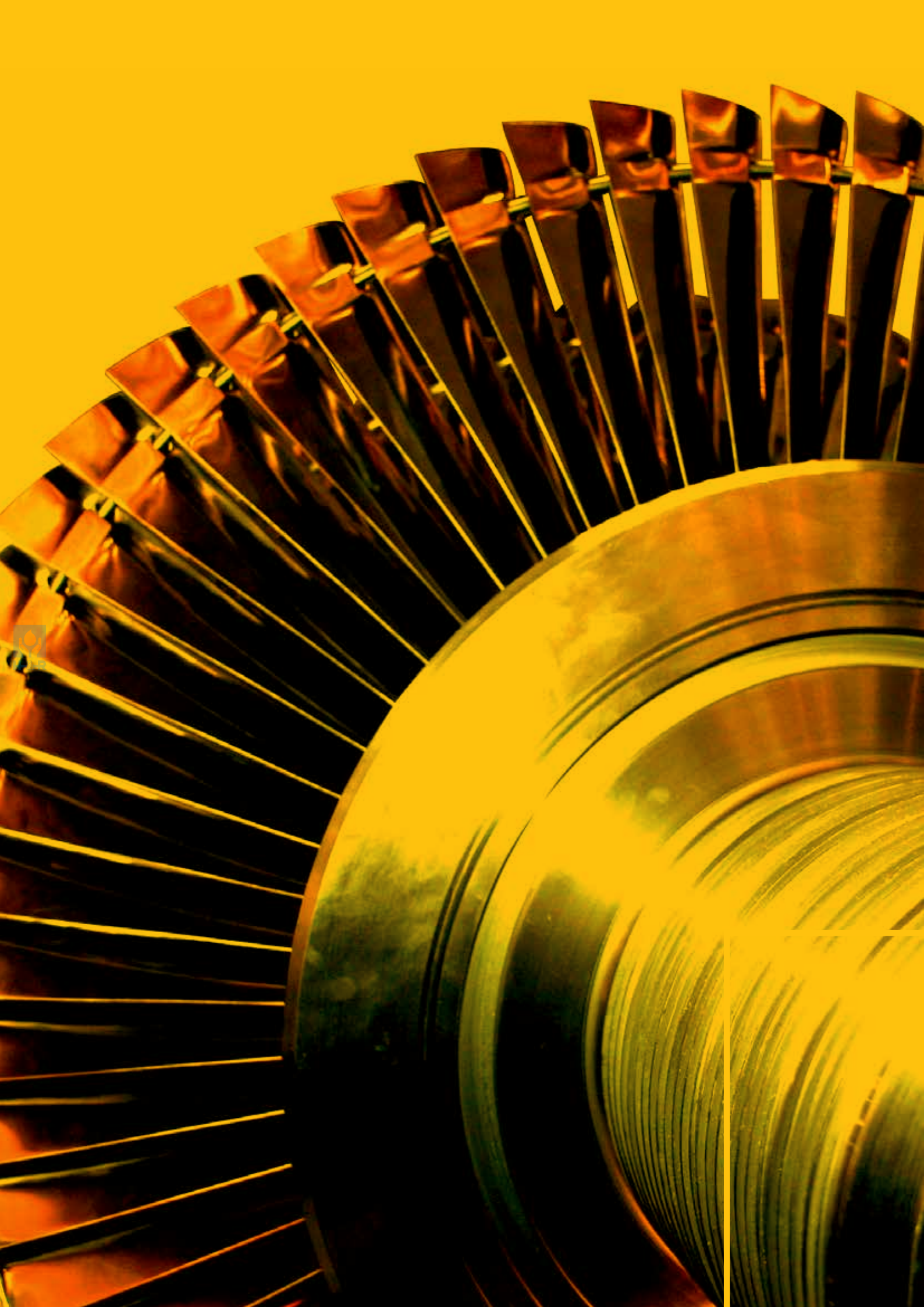
\*\* except of Vario





SRS GAS ENGINE OILS				
PRODUCT DENOMINATION	STANDARDS			APPLICATION / APPROVALS
	SAE	ACEA	API	
SRS Mihagrun	40		CF	Gas engine oil for heavy duty gas 2- and 4-stroke engines. Long Oil drain intervals even with use of bio, landfill and sewage gas. MAN Approval M 3271-4, Jenbacher Approval 1000-1109 for Gas Class B (Biogas) Model Series 2 and 3
SRS Mihagrun X 40	40			High-performance gas engine oil specifically designed for use with sewage gas, biogas and landfill gas and extended oil change intervals. MWM/Caterpillar Approval TR 0199-99-(1)2105, GE Jenbacher Approval TA 1000-1109 for Gas class B (Biogas) and C (Landfill gas), Model series 2 and 3, series 4 version A and B, series 6 version C and E, MAN Approval M 3271-4
SRS Mihagrun XB 40	40			High-performance medium ash gas engine oil specifically designed for use with sewage gas, biogas and landfill gas and extended oil change intervals. MAN - Biogas, MWM / Caterpillar high Ash, GE Jenbacher Type 2 and 3, Gas Class B (Biogas) and C (Landfill gas)
SRS Mihagrun LA 40	40		CF	Gas engine oil for higher stressed gas engines, also for gas engines with catalyser operation. MWM/Caterpillar Approval TR 0199-99-2105, Deutz Approval TR 0199-99-01213/1, MTU Approval MTL 5074 gas engines, MAN M 3271-2, GE Jenbacher, Waukesha
SRS Mihagrun LAX 40	40		CF	High-performance gas engine oil, specifically designed for use in modern low emission high-performance gas engines and extended oil change intervals. MWM/Caterpillar Approval TR 0199-99-(1) 2105, Deutz Approval TR 0199-99-01213/1 DE, GE Jenbacher Approval Type 2, 3, 4 and 6, Gas Class A (Natural gas) and B (Biogas), Waukesha







# INDUSTRIAL LUBRICANTS

# 03 INDUSTRIAL LUBRICANTS

SRS HYDRAULIC OILS			
PRODUCT DENOMINATION			APPLICATION / APPROVALS
	ISO-VG	DIN 51 502	
SRS Wiolan HN	5 to 100	HL	Zinc-free hydraulic oils with good corrosion and oxidation protection. DIN 51 524 Part 1 HL, DIN EN ISO 6743/4 HL, ISO 11158 HL
SRS Wiolan HS	5 to 150	HLP	EP-hydraulic oils with wear protection and high ageing resistance. Arburg, DIN 51 524 Part 2 HLP, DIN EN ISO 6743/4 HM, ISO 11158 HM
SRS Wiolan HX	22 to 100	HLP	Zinc-free heavy duty EP hydraulic oils with good demulsifying performance. Arburg, ENGEL, KraussMaffei, SEB 181 222, DBL 6713, DIN 51 524 Teil 2 HLP, DIN EN ISO 6743/4 HM, ISO 11158 HM, Voith 3625-006058, Voith 3625-006072
SRS Wiolan HB	32 to 68	HLP	Premium HLP hydraulic fluids for use in high developed hydraulic systems. Bosch Rexroth Fluid Rating List RDE 90245, Bosch Rexroth RDE 90235; Arburg <sup>1</sup> , Parker Denison HF-0, HF-1, HF-2; Eaton E-FDGN-TB002-E; Eaton Brochure 03-401-2010; Fives Cincinnati P-68, P-69, P-70 / <sup>1</sup> only for Wiolan HB 46
SRS Wiolan HV	15 to 68	HVLP	High-VI-EP hydraulic oils with good viscosity temperature performance (multi-grade characteristics). DIN 51 524 Part 3 HVLP, DIN EN ISO 6743/4 HV, ISO 11158 HV
SRS Wiolan HVX	32 to 68	HVLP	Zinc-free High-VI-EP hydraulic oils with good viscosity temperature performance (multi-grade characteristics). DIN EN ISO 6743/4 HV, ISO 11158 HV
SRS Wiolan H-540		HVLP	Hydraulic fluid approved namely by the German Army with quality certificate B-0279 according to the specification TL 9150-0035/6. For hydraulic equipment, wide operating temperature range of -30 °C to 100 °C. German Army Approval TL 9150-0035/6 NATO Code H 540, DIN EN ISO 6743/4 HV, ISO 11158 H
SRS Wiolan HG	10 to 100	HLPD	Zinc-free EP-hydraulic oils with deterging and dispersing characteristics. DIN 51 524 Part 2 HLPD, DIN EN ISO 6743/4 HM, ISO 11158 HM (except demulsibility)
SRS Wiolan HVG 46	46	HVLPD	High-VI-EP hydraulic oil with good viscosity-temperature performance and deterging, dispersing characteristics. DIN 51 524 Teil 3 HVLPD, DIN EN ISO 6743/4 HV, ISO 11158 HV (except demulsibility)
SRS Wiolan HE 46	46	HEES	Environmentally friendly hydraulic fluid, biologically degradable, fully synthetic. DIN EN ISO 6743/4 HEES, VDMA 24568, biologically degradable according to OECD 301-B > 80%





SRS INDUSTRIAL TRANSMISSIONS OILS			
PRODUCT DENOMINATION			APPLICATION / APPROVALS
	ISO-VG	DIN 51 502	
SRS Wiolan CN	5 to 680	CL	Industrial transmission oils with corrosion and oxidation protection. DIN 51 517 Part 2 CL, DIN 51 524 Part 1 HL, DIN 51 506 VB / VBL, ISO 12925-1 CKB, ISO 6743-6 CKB
SRS Wiolan CM	150 to 680	CL	Zinc-free transmission/circulating oils, according to Morgoil specification. Morgoil, DIN 51 517 Part 1 and Part 2, ISO 12925-1 Typ CKB, ISO 6743-6 Typ CKB, SEB 181 225 (CL)
SRS Ersolan	68 to 680	CLP	Zinc-free heavy duty EP industry transmission oils. SEB-Approval 181 226, DIN 51 517 Teil 3 CLP
SRS Ersolan synth GF	68 to 460	CLP	High performance synthetic gear oils for use in thermal high loaded industrial gear boxes with extended drain intervals and in wind turbine gear boxes. ISO 12925 Typ CKC - CKD, Flender Industrial Gear Revision 15, U.S. Steel 224, AGMA 9005-E02
SRS Wiolan HF 32 DB	32	CLP/HLP	Power transmission fluid for hydrodynamic transmission e. g. in locomotives and railway applications. DIN 51 502 CLP / HLP, Deutsche Bahn, Voith Turbo 120.00059010 Index 1
SRS Wiolan HF 32 synth	32	CLP/HLP	Fully synthetic power transmission fluid for hydrodynamic transmission e.g. in locomotives and railway applications with for extended oil change intervals. Low temperature properties down to - 40 °C. DIN 51 502 CLP / HLP, Voith Turbo 120.00059010 Index 3



# 03 INDUSTRIAL LUBRICANTS

SRS TURBINE, CIRCULATING AND COMPRESSOR OILS			
PRODUCT DENOMINATION			APPLICATION / APPROVALS
	ISO-VG	DIN 51 502	
SRS Wiolan CA	46 to 460	C VB VC	Cycle oils, paraffinic solvates, good air and water separation ability. Also suitable for vacuum pumps and as hardening oil. DIN 51 506 VB and VC, ISO 6743 Part 3 DVA / DVC
SRS Wiolan CD	32 to 320	VDL	Compressor oils with very low residue accumulation for high compression end-temperatures. DIN 51 506 VDL (fulfil the requirements of Group VBL), ISO 6743 Part 3 DAA / DAG / DAH
SRS Wiolan FT	46, 68	L-TDP L-TGP	Turbine oils for gas turbines with turbo compressors with connected transmissions. ISO 8068 L-TSE / TGE / TGF / TGSE, GE GEK 28143, 32568, 101941, 107395a, ABB/Alstom HTGD 90117, Siemens TLV 90 13 05, MAN Turbo machines
SRS Wiolan GT	32 to 68	L-TD L-TG	Turbine oils for gas and steam-turbines with excellent ageing-resistance and good corrosion protection. ISO 8068 L-TSA / TGA / TGB / TSGB, Siemens TLV 90 13 05, MAN Turbo machines, ABB/Alstom HTGD 90117, GE GEK 28143, 32568
SRS Wiolan WT	32 to 68	VCL	Compressor oils, especially for screw compressors. ISO 6743 Teil 3 DAA







SRS MISCELLANEOUS, INDUSTRIAL LUBRICANTS, SPECIALTIES			
PRODUCT DENOMINATION			APPLICATION / APPROVALS
	ISO-VG	DIN 51 502	
SRS Calibration Fluid CV			Calibration fluid for diesel injectors: Bosch Norm VS 15665-OL-CV, ISO Norm 4113-CV-AW, Bosch-Approval, MTU-Approval, MAN-Approval, VW-Approval
SRS Calibration Fluid			Testing oil for calibrating diesel injection pumps. Bosch-Norm VS 15665 OL, ISO Norm 4113, MTU-Approval
SRS Mihatherm WU	10, 32, 46	Q	Heat-transfer oils with excellent thermal stability and low viscosity with high seething. DIN 51 502 Q
SRS Wiolan TH	32 to 220	CGLP	Slideway oils with good sliding characteristics and low adhesion loss value. DIN 51 502 CGLP, ISO 6743 Part 13 GA / GB
SRS Wiolan KF	22 to 68	CAA/KC	Especially ageing resistant refrigeration machine oils of high purity grade. DIN 51 503 CAA / KC
SRS Wiolan IF 10	10	J	Transformer- respectively insulation oil, oxidation stable. VDE 0370-1, DIN 51 353, IEC 60296 Version 4, IEC 62535, ASTM D 1275-B
SRS Wiolan BF 10	10	R	Spray and corrosion protection oil for different applications. DIN 51 502 R
SRS Mihagran FO 2320/3 KOR	10	FS	Moulding release oils for different materials and construction materials. DIN 51 502 FS
SRS Wiol Heißdampfer-Zylinderöl	1000	ZB	Hot vapour cylinder oil for working temperatures of up to 325 °C. DIN 51 510 ZB
SRS Wiolit Sägekettentaftöl	10		Chainsaw oil versatile usable for all types of chainsaws
SRS Biolub Synth 68	68		Environmentally friendly, synthetic and biodegradable chainsaw oil. TL-9150-0089, part 3; BW Code OY 11880



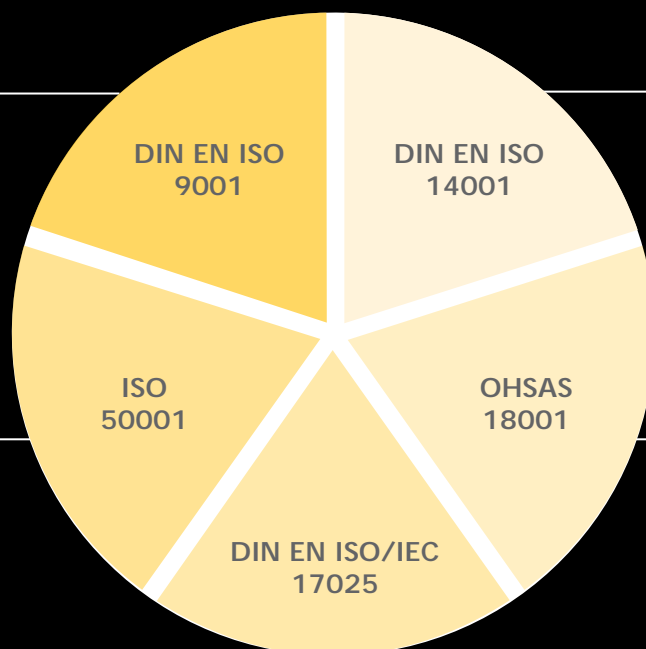
# 04 INTEGRATED MANAGEMENT SYSTEM

## **DIN EN ISO 9001:2008 Quality Management System**

This certification describes the requirements for quality management systems. It is now firmly established as the globally implemented standard for providing assurance about the quality to satisfy quality requirements and to enhance customer satisfaction in supplier-customer relationships.

## **DIN EN ISO 14001:2004 Environmental Management System**

This certification describes the requirements for environmental management systems. It confirms its global relevance for organizations wishing to operate in an environmentally sustainable manner.



## **ISO 50001:2011 Energy Management System**

This certification specifies the requirements for energy management systems.

## **OHSAS 18001:2007 Occupational Health and Safety Management System**

Occupational safety and health is a cross-disciplinary area concerned with protecting the safety, health and welfare of people engaged in work or employment. As a secondary effect, it may also protect co-workers, family members, employers, customers, suppliers, nearby communities, and other members of the public who are impacted by the workplace environment.

## **DIN EN ISO / IEC 17025:2005 German Accreditation System for Testing Laboratories**

The DAP's primary activity is the accreditation of materials testing bodies, chemical-analytical, biological and medical laboratories, product certification bodies and inspection bodies in Germany and throughout Europe. Accredited laboratories are independent from the production plant and are allowed to deliver expert opinions.



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