Shell Spirax axle, gear and automatic transmission fluids

Reliability, efficiency and optimum value for heavy-duty applications

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www.shell.com/lubricants

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To ensure axles, gears and automatic transmissions are well protected and work efficiently, they need reliable and effective lubricants.

The **Shell Spirax** range has been developed to enable fleet owners and operators to select the right fluids for their vehicles and products designed to **deliver more savings and higher productivity through enhanced wear protection, long fluid life and energy efficiency.**

Heavy-duty, on-highway

Gearbox, manual transmission and axle fluids

To meet the challenges of a wide range of axles, gearboxes and manual transmissions, Shell has designed a portfolio that enables you to choose a fluid to match your needs.

Product name suffix key

A = Axle
ATF = Automatic transmission fluid
D = Daimler
E = Energy efficiency
G = Gear
LS = Limited slip
T = Scana and MAN
M = Maintenance saving
X = Multi-vehicle/multi-OEM

Application icon key

Heavy truck
Heavy truck cabover
Bus/coach
Truck
Light truck
Four-wheel-drive car
Passenger car

Increasingly efficient protection

	Gearboxes and (automated) manual transmissions*		Axles*	
Advanced Tiers 5 and 6	**Shell Spirax S6 GXME** • Exceptional performance • Energy efficient • Maintenance saving	**Shell Spirax S6 GME 40** • Exceptional performance • Fuel economy • Maintenance saving	**Shell Spirax S6 AXME** • Exceptional performance • Energy efficient • Maintenance saving	**Shell Spirax S6 AXRME** • Exceptional performance • Energy efficient • Maintenance saving
Advanced Tiers 5 and 6	**Shell Spirax S6 GXME Ultra** • Exceptional performance • Energy efficient • Designed for Volvo Trucks applications	**Shell Spirax S6 GTME** • Exceptional performance • Energy efficient • Designed for Traton Group applications	**Shell Spirax S6 ADME** • Exceptional performance • Energy efficient • Designed for Daimler Truck applications	**Shell Spirax S6 AZME** • Premium performance SAE 75W-85 • Energy efficient • Designed for ZF HD axles
Advanced Tiers 5 and 6			**Shell Spirax S5 ADE** • Premium performance SAE 75W-85 • Fuel economy • Designed for Daimler Truck applications	
Premium Tiers 3 and 4	**Shell Spirax S4 GA** • Proven performance • API GL-5, MT-1		**Shell Spirax S4 AX** • Heavy-duty automotive gear oil • API GL-4/ 5, MT-1, SAE J2360 • Designed for OEMs/Mack/Dana	
Premium Tiers 3 and 4	**Shell Spirax S3 G** • Proven performance • API GL-4 and key manufacturers' specifications		**Shell Spirax S3 AX/AM/AD** • Proven performance • Designed for OEMs/MAN/ Scania/Daimler • API GL-4/GL-5 performance S3 AX	**Shell Spirax S3 ALS** • Proven performance • API GL-5 limited slip • ZF approval
Mainline Tiers 1 and 2	**Shell Spirax S2 G** • API GL-4 • Proven performance		**Shell Spirax S2 A** • API GL-5 • Proven performance	**Shell Spirax S2 ALS** • API GL-5 limited slip • Proven performance • Limited slip

* For more detailed information on performance and benefits of the different products please refer to the technical datasheets, which can be found on www.epc.shell.com.

Automatic transmission fluids

To meet the challenges of a wide range of heavy-duty automatic transmissions, Shell has designed a portfolio that enables you to choose a fluid to match your needs.

Product name suffix key

A = Allison
ATF = Automatic transmission fluid
D = Daimler/Dexron®
HD = Heavy duty
M = Maintenance saving
V = Voith
X = Multi-vehicle/multi-OEM
Z = ZF

In the area of automatic transmission fluids the letter M is sometimes used for the OEM Mercon.

Application icon key

- Heavy truck
- Heavy truck cabover
- Bus/coach
- Truck
- Light truck
- Passenger car
- Excavator

Increasingly efficient protection

	Automatic transmissions*		
Advanced Tiers 5 and 6	**Shell Spirax S6 ATF ZM** • Maintenance saving • Maximum performance • Designed for ZF	**Shell Spirax S6 ATF VM Plus** • Maintenance saving • Maximum performance • Designed for Voith	**Shell Spirax S6 ATF A668** • Maintenance saving • Maximum performance • Designed for Allison TES 668®
Premium Tiers 3 and 4	**Shell Spirax S4 ATF HDX** • Proven performance • Versatile application		
	Shell Spirax S3 ATF MD3 • Proven performance • Dexron® III, Mercon®		
Mainline Tiers 1 and 2	**Shell Spirax S2 ATF D2** • Proven performance • Dexron® IID	**Shell Spirax S2 ATF AX** • Proven performance • Designed for MAN, Voith and ZF transmissions	**Shell Spirax S2 ATF A389** • Proven performance • Designed for Allison TES 389™
	Shell Spirax S1 ATF TASA • Quality type A suffix A (TASA) automatic transmission and hydraulic fluid	**Shell Spirax S1 ATF Type F** • Quality type F automatic transmission and hydraulic fluid	

* For more detailed information on performance and benefits of the different products please refer to the technical datasheets, which can be found on www.epc.shell.com.

Heavy-duty, off-highway

Fluids for mining drivelines

The Shell transmission fluid portfolio is designed to meet the requirements of a wide range of mining applications, thereby enabling you to match your specific needs and make the most of your equipment.

Product name suffix key

AT = Arctic, extreme cold conditions
C = Construction
E = Energy efficiency
FD = Final drive
M = Maintenance saving
X = Multi-vehicle/multi-OEM

Application icon key

Excavator
Tractor

Increasingly efficient protection

	Mining drivelines*		
Advanced Tiers 5 and 6	**Shell Spirax S6 CXME** • Premium-performance SAE 5W-30 • Approved by major manufacturers • Meets latest specifications	**Shell Spirax S6 CXME** • High-performance SAE 10W-40 • Approved by major manufacturers • Meets latest specifications	**Shell Spirax S6 CFD ME** • Premium-performance SAE 60 • CAT FD-1 (synthetic) final drive and axle fluid
	Shell Spirax S6 CXM AT • Premium-performance SAE 0W-20 • Exceptional cold temperature properties • CAT TO-4		
	Shell Spirax S5 CFD M 50 • High-performance SAE 50 • CAT FD-1 final drive and axle oil	**Shell Spirax S5 CFD M 60** • High-performance SAE 60 • CAT FD-1 final drive and axle oil	
Premium Tier 3 and 4	**Shell Spirax S4 CX 10W** • High-performance SAE 10W • CAT TO-4 transmission/drive train and hydraulic oil	**Shell Spirax S4 CX 30** • High-performance SAE 30 • CAT TO-4 transmission/ drive train oil	**Shell Spirax S4 CX 50** • High-performance SAE 50 • CAT TO-4 transmission/drive train oil
	Shell Spirax S4 CX 60 • High-performance SAE 60 • CAT TO-4 transmission/ drive train oil		

* For more detailed information on performance and benefits of the different products please refer to the technical datasheets, which can be found on www.epc.shell.com.

Tractor transmission fluids

To meet the challenges of a wide range of agricultural applications, Shell has designed a portfolio that enables you to choose a universal tractor transmission oil (UTTO) or super tractor oil universal (STOU) to match your needs. UTTO products are for use in transmissions, hydraulics and wet brakes – STOU products cover all applications including engine.

Product-name suffix key

E = Energy saving, fuel efficiency
F = Fendt
LV = Low viscosity
M = Maintenance saving
T = Tractor
V = Valtra
X = Multi OEM

Application icon key

Tractor

Increasingly efficient protection

	Tractor transmissions*		
	UTTO products		STOU products
	UTTO core portfolio	UTTO specialities	
Advanced Tiers 5 and 6	**Shell Spirax S6 TXME** • High-performance 10W-30 UTTO • Approved by major manufacturers including ZF • Improved performance under low temperature conditions	**Shell Spirax S6 TFVM Plus** • High-performance 10W-30 UTTO • Designed for AGCO applications (Fendt/Valtra/Massey Ferguson) • Meeting highest specifications	
Premium Tiers 3 and 4	**Shell Spirax S4 TXM** • High-performance 10W-30 UTTO • Approved by major manufacturers • Meets latest specifications		**Shell Spirax S4 TX** • High-performance 10W-40 STOU • Meets major manufacturers' requirements • Suitable for use as an engine oil
Premium Tiers 3 and 4	**Shell Spirax S3 TX** • Mainstream-performance UTTO SAE 10W-30 • Meets major manufacturers' requirements	**Shell Spirax S3 TLV** • High-performance 5W-20 UTTO • Meets major manufacturers' requirements • Designed for noise-free and smooth operations of oil-immersed (wet) brakes	**Shell Spirax S3 T** • Premium-performance 15W-40 STOU • Meets major manufacturers' requirements (including Fendt Vario) • Suitable for use as an engine oil
Mainline Tiers 1 and 2	**Shell Spirax S2 TX** • Fit-for-purpose UTTO SAE 80W • Meets major manufacturers' requirements		

* For more detailed information on performance and benefits of the different products please refer to the technical datasheets, which can be found on www.epc.shell.com.

Heavy-duty on-highway gearboxes and manual transmissions

Product	Benefits	Specifications and approvals (Full details of approvals for all products can be obtained from your Shell representative.)
Shell Spirax S6 GXME	• SAE 75W-80 • Exceptional performance • Energy efficient • Maintenance saving	API GL-4. Approved by MAN 341 Type Z4; MAN 341 Type E3; ZF TE-ML 01L, 02L and 16K
Shell Spirax S6 GXME Ultra	• SAE 75W-80 and 75W-90 • Exceptional performance • Energy efficient • Designed for Volvo Trucks applications	SAE 75W-80 API GL-4. Approved by Volvo 97307/97318 and Voith Retarder Classification C. Suitable for use in applications where MAN 341 Type Z4/341 E4, DTFR 13B160 or ZF TE-ML 02L is required. SAE 75W-90: API GL-4; Volvo 97315/97319; recommended for use in DTFR 13B110 applications.
Shell Spirax S6 GTME	• SAE 75W-80 • Exceptional performance • Energy efficient • Designed for latest Traton Group automated manual transmissions	API Service Classification GL-4; Scania STO MTF; MAN 341 Type GB; suitable for Navistar MPAPS B-6825
Shell Spirax S6 GME	• SAE 40 and 50 • Exceptional performance • Fuel economy • Maintenance saving	SAE 40: API MT-1; Meritor Specification O-81; Con Met; Eaton PS-386 SAE 50: API Service Classification MT-1; Eaton PS-164 rev 7; Navistar TMS 6816; Mack Truck TO-A-Plus; Volvo 97305 (I-Shift 120,000-km oil-drain interval); ZF FreedomLine
Shell Spirax S4 GA	• SAE 80W-90 • Proven performance • API GL-5, MT-1	API Service Classification GL-5; MT-1
Shell Spirax S3 G	• SAE 80W and 80W-90 • Proven performance • API GL-4 and key manufacturer specifications	API GL-4. Approved by ZF TE-ML 02B and 17A; MAN 341 Type Z2; MAN 341 Type E2. Meets the requirements of Eaton and Isuzu
Shell Spirax S2 G	• SAE 80W, 80W-90, 90 and 140 • Proven performance • API GL-4	Meets the requirements of API GL-4

Heavy-duty on-highway axles

Product	Benefits	Specifications and approvals (Full details of approvals for all products can be obtained from your Shell representative.)
Shell Spirax S6 AXME	• SAE 75W-90 and 75W-140 • Exceptional performance • Energy efficient • Maintenance saving	SAE 75W-90: API GL-5 and MT-1; SAE J2360. Approved by Volvo 97312; MAN 342 Type S1; Meritor O-76, O-94, O-95 (extended drain) and O-96 (e-Powertrain); ZF TE-ML 05A, 12L, 12N, 16F, 17B, 19C and 21A; Scania STO 2:0 A FS; DAF; and Mack GO-J. SAE 75W-140: API GL-5; Scania STO 2:0 A; ZF TE-ML 05A, 12N, 16F and 21A.
Shell Spirax S6 AXRME	• SAE 75W-90 • Exceptional performance • Energy efficient • Maintenance saving	API GL-5·API MT-1;·SAE J 2360. Approved by Dana SHAES-256 Rev E; Meritor O-76, O-94, O-95 (extended drain) and O-96 (e-Powertrain); Mack GO-J Plus; Volvo 97312. Recommended for use in the following applications: Navistar, International, Paccar, Kenworth, Peterbilt, Freightliner (for use in Dana and Meritor axles), Hino
Shell Spirax S6 ADME	• SAE 75W-90 • Exceptional performance • Energy efficient • Designed for Daimler Truck applications	API GL-5; MT-1; SAE J2360. Approved by DTFR 12B140 and MB-Approval 235.9; ZF TE-ML 02B, 05A, 12L, 12N, 16F, 17B, 19C and 21A; MAN 342 S1; MAN 341 Type Z2; MAN 341 Type GA1; Volvo 97312; Scania STO 1:1 G and Scania STO 2:0 A FS. Meets the requirements of DAF, Mack GO-J and Arvin Meritor O-76N
Shell Spirax S6 AZME	• SAE 75W-85 • Premium performance • Energy efficient • Designed for ZF	ZF TE-ML 12F, 19D
Shell Spirax S5 ADE	• SAE 75W-85 • Premium performance • Energy efficient • Designed for Daimler trucks	API GL-5; DTFR 12B120; DFS 93K219.03; MB-Approval 235.33. Fulfills performance criteria of SAE J 2360.
Shell Spirax S4 AX	• SAE 80W-90 and 85W-140 • Heavy-duty automotive gear oil • API GL-4/5, MT-1, SAE J2360 • Designed for manufacturers, Mack, Dana	SAE 80W-90: API GL-4; GL-5; MT-1; SAE J 2360; Mack GO-H and Mack GO-J approved; Dana approved; ZF TE-ML 05A, 12M, 16B, 17B, 19B and 21A. SAE 85W-140: API GL-4; GL-5; MT-1; SAE J 2360; Mack GO-H and Mack GO-J approved.
Shell Spirax S3 AX	• SAE 80W-90 and 85W-140 • Proven performance • Designed for multiple manufacturers	SAE 80W-90: API GL-5, MT-1. Approved by DTFR 12B130; MAN 342 Type M2; ZF TE-ML 05A, 12E, 16C, 17B, 19B and 21A. Suitable for use for DTFR 12B100. SAE 85W-140: API GL-5; MAN 342 Type M1; ZF TE-ML 07A, 12E, 16D, 21A
Shell Spirax S3 AM	• SAE 80W-90 • Proven performance • Designed for manufacturers, MAN, Daimler	API GL-4, GL-5, MT-1. Approved by MAN 341 Type E2, MAN 341 Type Z2, MAN 341 GA1 and MAN 342 Type M2; ZF TE-ML 02B, 05A, 12L, 12M, 16C, 17H, 19B and 21A; Mack GO-J; Scania STO 1:1 G. Meets the requirements of SAE J2360
Shell Spirax S3 AD	• SAE 80W-90 • Proven performance • Designed for multiple manufacturers	API GL-5, MT-1. Approved by DTFR 12B110 and MB-Approval 235.23; MAN 342 Type M3 ; Volvo 97321; and ZF TE-ML 05A, 12L, 12M, 16B, 17B, 19B and 21A. Meets the requirements of SAE J2360
Shell Spirax S3 ALS	• SAE 80W-90 and 85W-140 • Proven performance • API GL-5 limited slip • ZF approved	SAE 80W-90: API GL-5 limited slip. Approved by ZF for ZF TE-ML 05C, 12C and 21C. SAE 85W-90: ZF TE-ML 05C, 12C, 16E and 21C.
Shell Spirax S2 A	• SAE 80W-90, 90, 85W-140 and 140 • Proven performance • API GL-5	Meets the requirements of API GL-5
Shell Spirax S2 ALS	• SAE 80W-90, 90, 85W-140 and 140 Proven performance • API GL-5 • Limited slip	Meets the requirements of API GL-5 and limited slip

Heavy-duty on-highway automatic transmissions

Product	Benefits	Specifications and approvals (Full details of approvals for all products can be obtained from your Shell representative.)
Shell Spirax S6 ATF ZM	• Maintenance saving • Maximum performance for ZF	Approved by ZF TE-ML 4D, 14E, 16N, 20F and 25F; MAN 339 Type Z13 (ZF-Ecolife 120,000–240,000 km depending on work temperature), and MAN 339 Type Z4 (ZF-Ecomat 150,000 km)
Shell Spirax S6 ATF VM Plus	• Maintenance saving • Maximum performance • Designed for Voith	Approved by Voith 150.014524.xx and Voith US SB 0113/118; ZF TE-ML 04D, 14B, 16L and 17C; MAN 339 Type L1, MAN 339 V3 and MAN 339 Type Z2; and DTFR 13C170, DTFR 13D130 and MB-Approval 236.93. Suitable for ZF TE-ML 03D, 09
Shell Spirax S6 ATF A668	• Maintenance saving • Maximum performance • Designed for Allison TES 668	Approved by Allison TES A668:(668-10222021), DTFR 13C190 and DANA-OHTM-ATF-X: Voith H55.6335.xx; 22A-0004; Fulfils the performance characteristics of JASO 1-A; Volvo 97340/97341; Ford Mercon; GM Dexron® II, IIIG and IIIH; MAN 339 Type V1; JASO 1-A and Caterpillar AT-1.
Shell Spirax S4 ATF HDX	• Proven performance • Versatile application	Approved by ZF TE-ML 03D, 04D, 14B and 17C; MAN 339 Type Z2 and MAN 339 Type V2; DTFR 13C170 and MB-Approval 236.93; Voith 55.6336.xx (standard drain intervals up to 120,000 km); Volvo 97341:396 and DANA-OHTM-ATF: 22A-0001. Meets the requirements of Ford Mercon®; GM Dexron® IIIG; and Allison C-4
Shell Spirax S3 ATF MD3	• Proven performance • Dexron® III, Mercon®	Suitable for use in all vehicles where GM Dexron® III, Ford Mercon® or Allison C-4 fluids are required. Do not use where GM Dexron® VI or Ford Mercon® V, Mercon® SP or Mercon® LV fluids are specified.
Shell Spirax S2 ATF A389	• Proven performance • Designed for Allison TES 389	Allison TES-389; Voith 55.6335
Shell Spirax S2 ATF D2	• Proven performance • Dexron® IID	Meets requirements of GM Dexron® II and Allison C-4
Shell Spirax S2 ATF AX	• Proven performance • Designed for MAN, Voith and ZF transmissions	Ford Mercon; MB-Approval 236.7 and DTFR 13C140; ZF TE-ML: 03D, 04D, 09, 11A and 14A; Voith 55.6335; MAN: 339 Type Z1 and 339 Type V1; Renk. Suitable for use in applications where Allison C-4 type fluids are required. Suitable for performance in applications requiring a Dexron® IID type fluid
Shell Spirax S1 ATF TASA	• Quality type A suffix (TASA) automatic transmission and hydraulic fluid	GM Type A, Suffix A
Shell Spirax S1 ATF Type F	• Quality type F automatic transmission and hydraulic fluid	Ford SQM-2C 9007-AA recommended; Ford (service fill) M2C-33F, -33G; Borg Warner recommended for some units (initial fill, service fill and top-up)

Heavy-duty off-highway mining drivelines

Product	Benefits	Specifications and approvals (Full details of approvals for all products can be obtained from your Shell representative.)
Shell Spirax S6 CXM AT	• SAE 0W-20 • Premium-performance • Exceptional cold-temperature properties • CAT TO-4	Caterpillar TO-4; Vickers 35VQ25A hydraulic pump test
Shell Spirax S6 CXME	• SAE 5W-30/10W-40 • Premium performance • Approved by major manufacturers • Meeting latest specifications	Caterpillar TO-4/TO-4M, ZF TE-ML 03C Suitable for use in applications where Allison C-4 type fluids are required
Shell Spirax S6 CFD ME	• SAE 60 • Premium-performance • CAT FD-1 (synthetic) final drive and axle fluid	CAT FD-1 or where CAT FD-1 (FDAO) is specified
Shell Spirax S5 CFD M	• SAE 50/60 • High-performance • CAT FD-1 final drive and axle oil	Caterpillar FD-1 or where CAT FD-1 (FDAO) is specified
Shell Spirax S4 CX	• SAE 10W/30/50/60 • High-performance • CAT TO-4 transmission/drive train and hydraulic oil	Approved by Caterpillar TO-4 (SAE 10W/30/50/60); ZF TE-ML 03C (SAE 10W/30) and 07F (SAE 30). DANA-OHTM-TO-30 (for SAE 30 only). Shell Spirax S4 CX* is suitable for use in many powershift or manual transmissions, wet-brake systems and many off-highway hydraulic systems including those of Komatsu and Caterpillar. * Please check equipment manuals for selection of appropriate viscosity grade.

Heavy-duty off-highway UTTO and STOU

Product	Benefits	Specifications and approvals (Full details of approvals for all products can be obtained from your Shell representative.)
Shell Spirax S6 TFVM Plus	• High-performance 10W-30 UTTO • Designed for AGCO applications • Meeting highest specifications	API GL-4; Fendt: FWN 81001 (AGCO MOD CVT transmission specification); Massey Ferguson: GIMA CMS M1145; Valtra: G2-A22, G2-B10, G2-08
Shell Spirax S6 TXME	• High-performance 10W-30 UTTO • Approved by major manufacturers • Meeting highest specifications	API GL-4; Ford M2C-134D; New Holland FNHA-2-C.201.00; AGCO 821 XL; John Deere JDM-J20C; Massey Ferguson CMS M1145, M1141 and M1135; Volvo 97303: 018, WB 101; ZF TE-ML 03E, 03L, 05F, 17E and 21F; Caterpillar TO-2. Shell Spirax S6 TXME is also recommended for use in case equipment where fluids meeting MS 1207 and MS 1209 are specified
Shell Spirax S4 TXM	• High-performance 10W-30 UTTO • Approved by major manufacturers • Meets latest specifications	API GL-4; Case New Holland MAT-3525 (meets the requirements); John Deere JDM-J20C; Massey Ferguson M1145; Volvo WB 101, Transmission Oil 97303:015; ZF TE-ML 03E, 03L, 05F, 06D, 06K, 06M, 06N, 06R, 17E and 21F; DANA-OHTM-UTTO: 22B-0006. Komatsu – recommended for use in certain construction equipment; Shell Spirax S4 TXM is also recommended for use in case equipment where fluids meeting MS 1207, 1209 or 1210 are specified. Suitable for use in applications where Allison C-4 type fluids are required Shell Spirax S4 TXM can be used when an SAE J 306 80W grade is recommended
Shell Spirax S4 TX	• High-performance 10W-40 STOU • Meets major manufacturers' requirements	API GL-4; Massey Ferguson M1139 and M1144; John Deere JDM J27; Caterpillar CAT TO-2; ZF TE-ML 06B, 06D, 06F, 06N, 07B. Can be used in applications requiring AP CF-4/SF performance level
Shell Spirax S3 TLV	• High-performance 5W-20 UTTO • Meets major manufacturers' requirements	API GL-4; Caterpillar TO-2; Case New Holland MS-1204, MS-1206, MS-1207, MS-1209 and MS-1210; John Deere JDM J20D; ZF 03F; Massey Ferguson M1141
Shell Spirax S3 TX	• Mainstream-performance 10W-30 UTTO • Meets major manufacturers' requirements	API GL-4, China JB/T 7282-2016 App. C, meets the requirement of Allison C4 (obsolete). Recommended for applications requiring John Deere JDM-J20C fluids
Shell Spirax S3 ST	• Premium-performance 15W-40 STOU • Meets major manufacturers' requirements (including Fendt Vario)	API GL-4; Massey Ferguson M1139, M1144 and M1145 Caterpillar TO-2; John Deere JDM J27; ZF TE-ML 06B, 06Q, 07B. Can be used in applications requiring API CF-4/SF performance level
Shell Spirax S2 TX	• Fit-for-purpose UTTO SAE 80W • Meets major manufacturers' requirements	API GL-4; John Deere JDM J20C; Caterpillar TO-2 (obsolete); Case/IH MS-1206/07/08/09 (obsolete); Ford/New Holland M2C- 134D (obsolete); suitable for Massey-Ferguson M1145.

For more information, please contact your Shell Lubricants representative.

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Cautionary note: **www.shell.com/investors/disclaimer-and-cautionary-note**