



# RELIABILITY, EFFICIENCY AND OPTIMUM VALUE FOR HEAVY-DUTY APPLICATIONS

**Shell Spirax axle, gear and  
automatic transmission fluids**

[www.shell.com/lubricants](http://www.shell.com/lubricants)

**SHELL  
LUBRICANT  
SOLUTIONS**

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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; products designed to **deliver more savings and higher productivity through enhanced wear protection, long fluid life and energy efficiency.**

## HEAVY-DUTY, ON-HIGHWAY

### A RANGE OF FLUIDS FOR AXLES, GEARBOXES AND MANUAL TRANSMISSIONS

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.

INCREASING EFFICIENCY & PROTECTION

ADVANCED  
TIERS 5 AND 6


PREMIUM  
TIERS 3 AND 4

MAINLINE  
TIERS 1 AND 2

Gearboxes and manual transmissions


Shell **Spirax S6** GXME

- Exceptional performance
- Energy efficient
- Maintenance saving




Shell **Spirax S6** GME 40

- Exceptional performance
- Fuel economy
- Maintenance saving




Shell **Spirax S6** GXME Ultra

- Exceptional performance
- Energy efficient
- Designed for Volvo Trucks applications




Shell **Spirax S4** GA

- Proven performance
- API GL-5, MT-1




Shell **Spirax S3** G

- Proven performance
- API GL-4 and key manufacturers' specifications



Shell **Spirax S2** G

- API GL-4
- Proven performance



PRODUCT-NAME SUFFIX KEY

**A** = Axle

**ATF** = Automatic transmission fluid

**D** = Daimler/Dexron®

**E** = Energy efficiency


**G** = Gear


**LS** = Limited slip


**M** = (Low) maintenance


**X** = Multi-vehicle/multi-OEM


APPLICATION ICON KEY


 Heavy truck


 Heavy truck cabover

 Bus/coach

 Truck




 Light truck

 Four-wheel-drive car

 Passenger car






































Axles	
<b>Shell Spirax S6 AXME</b> <ul style="list-style-type: none"> <li>■ Exceptional performance</li> <li>■ Energy efficient</li> <li>■ Maintenance saving</li> </ul> 	<b>Shell Spirax S6 AXRME</b> <ul style="list-style-type: none"> <li>■ Exceptional performance</li> <li>■ Energy efficient</li> <li>■ Maintenance saving</li> </ul> 
<b>Shell Spirax S6 ADME</b> <ul style="list-style-type: none"> <li>■ Exceptional performance</li> <li>■ Energy efficient</li> <li>■ Designed for Daimler Truck applications</li> </ul> 	
<b>Shell Spirax S4 AX</b> <ul style="list-style-type: none"> <li>■ Heavy-duty automotive gear oil</li> <li>■ API GL-4/ 5, MT-1, SAE J2360</li> <li>■ Designed for OEMs/Mack/Dana</li> </ul> 	
<b>Shell Spirax S3 AX/AM/AD</b> <ul style="list-style-type: none"> <li>■ Proven performance</li> <li>■ Designed for OEMs/MAN/Mack/Scania/Daimler</li> </ul> 	<b>Shell Spirax S3 ALS</b> <ul style="list-style-type: none"> <li>■ Proven performance</li> <li>■ API GL-5 limited slip</li> <li>■ ZF approval</li> </ul> 
<b>Shell Spirax S2 A</b> <ul style="list-style-type: none"> <li>■ API GL-5</li> <li>■ Proven performance</li> </ul> 	<b>Shell Spirax S2 ALS</b> <ul style="list-style-type: none"> <li>■ API GL-5 limited slip</li> <li>■ Proven performance</li> <li>■ Limited slip</li> </ul> 



## A RANGE OF FLUIDS FOR HEAVY-DUTY AUTOMATIC TRANSMISSIONS

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.

INCREASINGLY EFFICIENT PROTECTION	ADVANCED TIERS 5 AND 6	<b>Automatic transmissions</b>			
		Shell <b>Spirax S6</b> ATF ZM	Shell <b>Spirax S6</b> ATF VM Plus	Shell <b>Spirax S6</b> ATF A295	Shell <b>Spirax S6</b> ATF A668
		<ul style="list-style-type: none"> <li>■ Maintenance saving</li> <li>■ Maximum performance</li> <li>■ Designed for ZF</li> </ul>   	<ul style="list-style-type: none"> <li>■ Maintenance saving</li> <li>■ Maximum performance</li> <li>■ Designed for Voith</li> </ul>   	<ul style="list-style-type: none"> <li>■ Maintenance saving</li> <li>■ Maximum performance</li> <li>■ Designed for Allison TES 295</li> </ul>   	<ul style="list-style-type: none"> <li>■ Maintenance saving</li> <li>■ Maximum performance</li> <li>■ Designed for Allison TES 668</li> </ul>   
	PREMIUM TIERS 3 AND 4	Shell <b>Spirax S4</b> ATF HDX			
		<ul style="list-style-type: none"> <li>■ Proven performance</li> <li>■ Versatile application</li> </ul>   			
	MAINLINE TIERS 1 AND 2	Shell <b>Spirax S3</b> ATF MD3			
		<ul style="list-style-type: none"> <li>■ Proven performance</li> <li>■ Dexron® III, Mercon®</li> </ul>   			
		Shell <b>Spirax S2</b> ATF D2	Shell <b>Spirax S2</b> ATF AX	Shell <b>Spirax S2</b> ATF A389	
		<ul style="list-style-type: none"> <li>■ Proven performance</li> <li>■ Dexron® IID</li> </ul>   	<ul style="list-style-type: none"> <li>■ Proven performance</li> <li>■ Designed for MAN, Voith and ZF transmissions</li> </ul>   	<ul style="list-style-type: none"> <li>■ Proven performance</li> <li>■ Designed for Allison TES 389</li> </ul>   	
		Shell <b>Spirax S1</b> ATF TASA	Shell <b>Spirax S1</b> ATF Type F		
		<ul style="list-style-type: none"> <li>■ Quality type A Suffix A (TASA) automatic transmission and hydraulic fluid</li> </ul>   	<ul style="list-style-type: none"> <li>■ Quality type F automatic transmission and hydraulic fluid</li> </ul>   		

### PRODUCT-NAME SUFFIX KEY

**A** = Allison  
**ATF** = Automatic transmission fluid  
**D** = Daimler/Dexron®  
**HD** = Heavy duty  
**M** = (Low) maintenance  
**M** = Mercon®  
**V** = Voith  
**X** = Multi-vehicle/multi-OEM  
**Z** = ZF

### APPLICATION ICON KEY

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

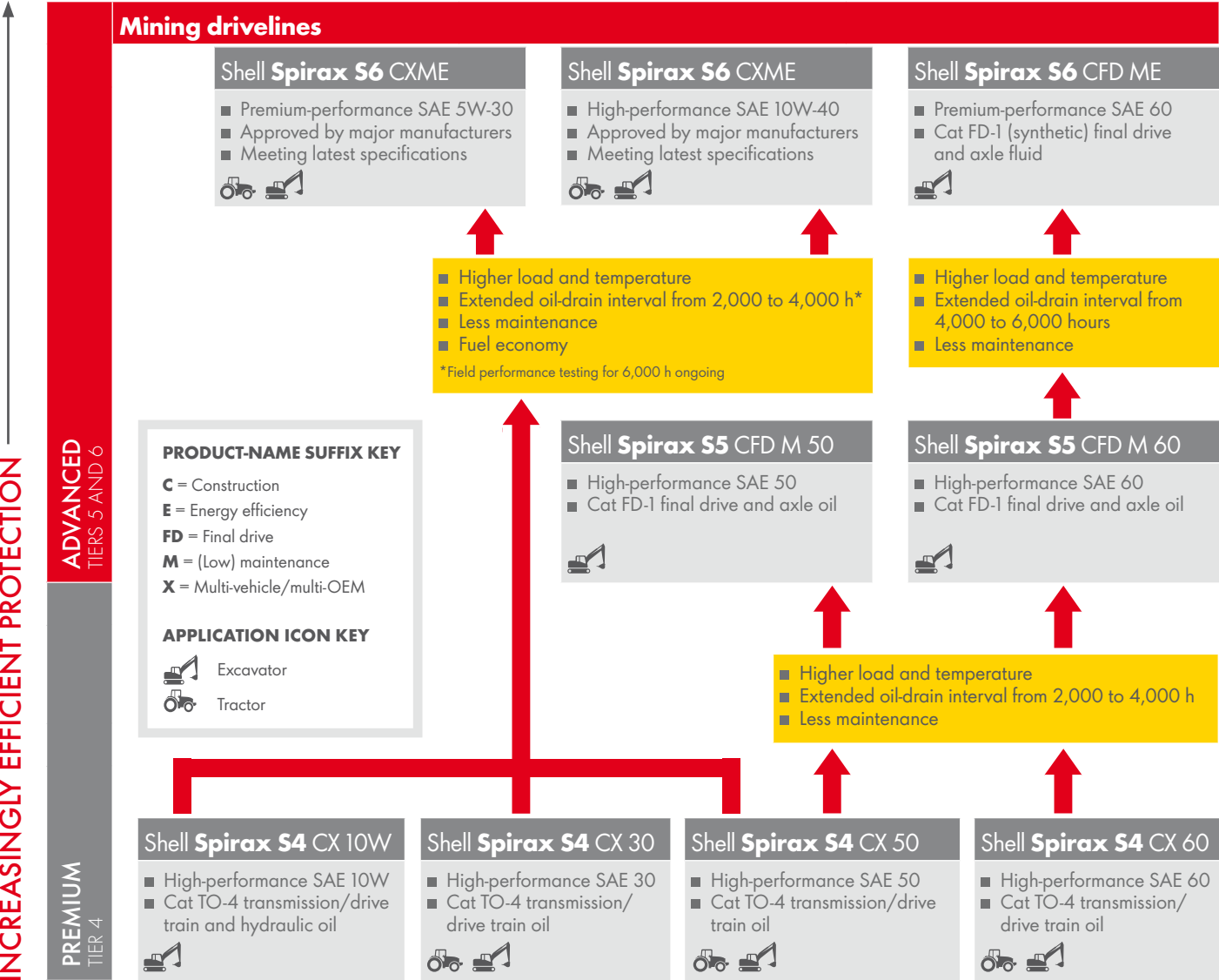


HEAVY-DUTY, OFF-HIGHWAY



A RANGE OF FLUIDS FOR MINING DRIVELINES

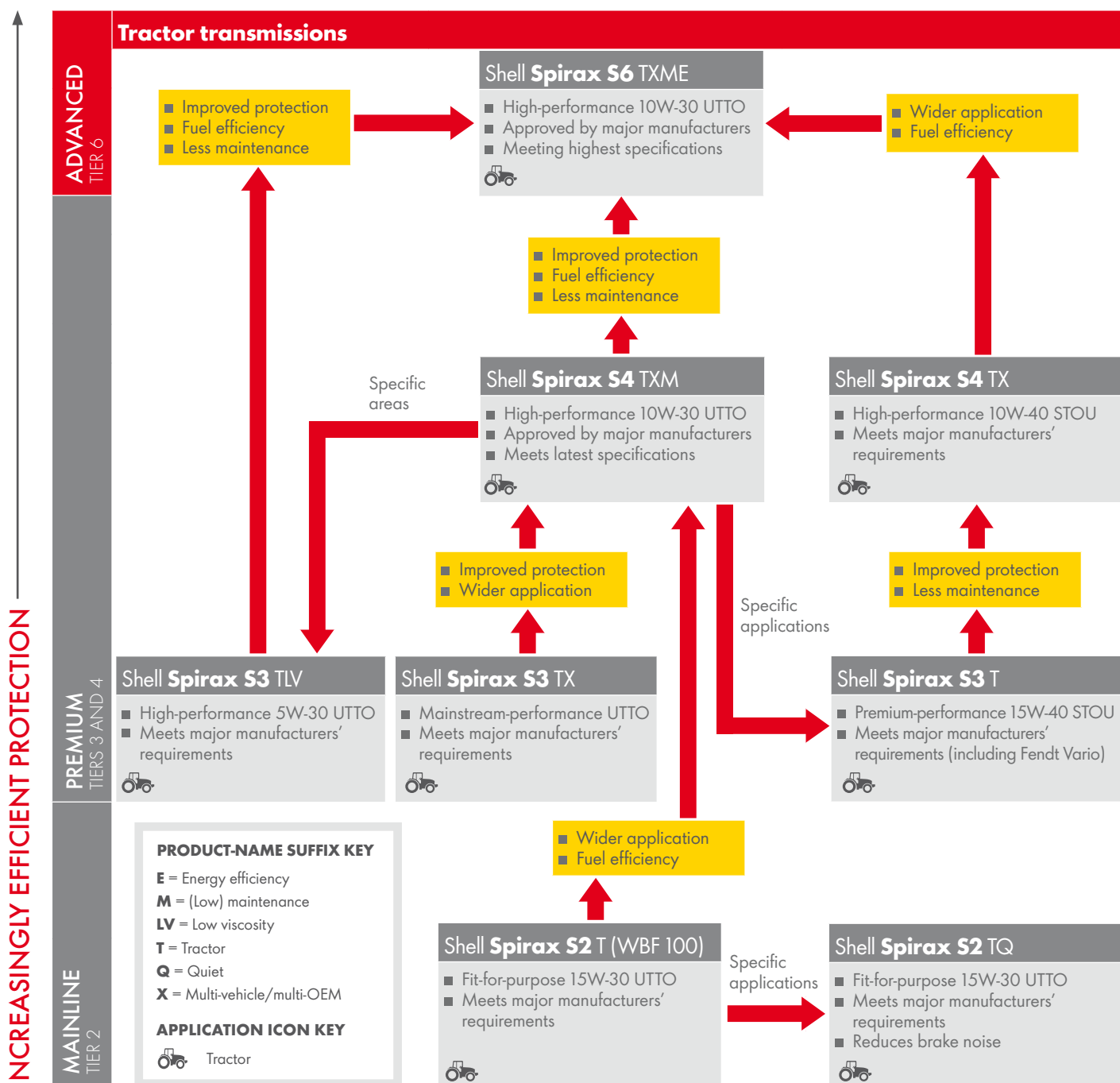
The Shell transmission fluid portfolio is designed to meet the requirements of a wide range of mining applications, enabling you to match your specific needs and make the most of your equipment.





## A RANGE OF FLUIDS FOR TRACTOR TRANSMISSIONS

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.



PRODUCT	BENEFITS	SPECIFICATIONS AND APPROVALS (Full details of approvals for all products can be obtained from your Shell representative.)
Heavy-duty on-highway gearboxes and manual transmissions		
<b>Shell Spirax S6 GXME</b>	<ul style="list-style-type: none"> <li>Exceptional performance</li> <li>Energy efficient</li> <li>Maintenance saving</li> </ul>	Exceeds requirements of API GL-4 and MT-1. Approved by MAN 341 Type E4; ZF TE-ML 01L, 02L and 16K
<b>Shell Spirax S6 GXME Ultra</b>	<ul style="list-style-type: none"> <li>Exceptional performance</li> <li>Energy efficient</li> <li>Designed for Volvo Trucks applications</li> </ul>	Exceeds requirements of 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, MB 235.41 or ZF TE-ML 02L is required
<b>Shell Spirax S6 GME</b>	<ul style="list-style-type: none"> <li>Exceptional performance</li> <li>Fuel economy</li> <li>Maintenance saving</li> </ul>	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
<b>Shell Spirax S4 GA</b>	<ul style="list-style-type: none"> <li>Proven performance</li> <li>API GL-5, MT-1</li> </ul>	API Service Classification GL-5; MT-1
<b>Shell Spirax S3 G</b>	<ul style="list-style-type: none"> <li>Proven performance</li> <li>API GL-4 and key OEM specifications</li> </ul>	Exceeds the requirements of API GL-4. Approved by ZF TE-ML 02B and 17A; MAN 341 Type Z2. Meets the requirements of Eaton, Isuzu and MAN 341 Type E2
<b>Shell Spirax S2 G</b>	<ul style="list-style-type: none"> <li>Proven performance</li> <li>API GL-4</li> </ul>	Meets the requirements of API GL-4
Heavy-duty on-highway axles		
<b>Shell Spirax S6 AXME</b>	<ul style="list-style-type: none"> <li>Exceptional performance</li> <li>Energy efficient</li> <li>Maintenance saving</li> </ul>	Meets requirements of API GL-5 and MT-1; MIL-PRF-2105E; SAE J2360. Approved by Volvo 97312; NAB 342 Type S1, MAN 341 Type GA-2; Meritor 076-N and Meritor (EU) extended drain; ZF TE-ML 05A, 12L, 12N, 16F, 17B, 19C and 21A; Scania STO 2:0 and STO 2:0 A FS; DAF; and Mack GO-J. Meets Iveco 18-1805 extended drain requirements
<b>Shell Spirax S6 AXRME</b>	<ul style="list-style-type: none"> <li>Exceptional performance</li> <li>Energy efficient</li> <li>Maintenance saving</li> </ul>	API GL-5-API MT-1;-SAE J 2360. Approved by Dana SHAES-256 Rev E; Meritor 076-N; Mack GO-J Plus. Recommended for use in the following applications: Navistar, International, Paccar, Kenworth, Peterbilt, Freightliner (for use in Dana and Meritor axles), Hino and Volvo
<b>Shell Spirax S6 ADME</b>	<ul style="list-style-type: none"> <li>Exceptional performance</li> <li>Energy efficient</li> <li>Designed for Daimler Trucks applications</li> </ul>	Exceeds the requirements of API GL-5; MT-1. Approved by MB-Freigabe 235.8; ZF TE-ML 02B, 05A, 12L, 12N, 16F, 17B, 19C and 21A; MAN 342 S1 and 341 Z2; Volvo 97312; and Scania STO 1:0. Meets the requirements of DAF, Mack GO-J and Arvin Meritor O-76N
<b>Shell Spirax S4 AX</b>	<ul style="list-style-type: none"> <li>Heavy-duty automotive gear oil</li> <li>API GL-4/5, MT-1, SAE J2360</li> <li>Designed for OEMs, Mack, Dana</li> </ul>	API GL-4; GL-5; MT-1; SAE J 2360; Mack GO-H and Mack GO-J approved; Dana approved; and meets MIL-L-2105D (obsolete) and MIL-PRF-2105E (obsolete)
<b>Shell Spirax S3 AX</b>	<ul style="list-style-type: none"> <li>Proven performance</li> <li>Designed for multiple-OEMs</li> </ul>	Exceeds the requirements of API GL-5, MT-1. Approved by MB 235.6; MAN 342 Type M2; ZF TE-ML 07A, 16C, 17B, 19B and 21A. Meets the service fill requirements of Mercedes-Benz sheet 235.0. Meets the requirements of MIL-L-2105D
<b>Shell Spirax S3 AM</b>	<ul style="list-style-type: none"> <li>Proven performance</li> <li>Designed for OEMs, MAN, Daimler</li> </ul>	API GL-4. Approved by MAN 341 Type E2, MAN 341 Type Z2 and MAN 342 Type M2; ZF TE-ML 02B, 05A, 12L, 12M, 17H, 19B and 21A; Mack GO-J; and Scania STO 1:0. Meets the requirements of MIL-PRF-2105E and SAE J2360
<b>Shell Spirax S3 AD</b>	<ul style="list-style-type: none"> <li>Proven performance</li> <li>Designed for multiple-OEMs</li> </ul>	API GL-5, MT-1. Approved by MB 235.20; MAN 342 Type M3 and MAN 341 Type GA1; and ZF TE-ML 05A, 12L, 12M, 16B, 17B, 19B and 21A. Meets the requirements of SAE J2360
<b>Shell Spirax S3 ALS</b>	<ul style="list-style-type: none"> <li>Proven performance</li> <li>API GL-5 limited slip</li> <li>ZF approved</li> </ul>	Approved by ZF for ZF TE-ML 05C, 12C and 21C. Meets the requirements of API GL-5; limited slip; and MIL-L-2105D
<b>Shell Spirax S2 A</b>	<ul style="list-style-type: none"> <li>Proven performance</li> <li>API GL-5</li> </ul>	Meets the requirements of API GL-5
<b>Shell Spirax S2 ALS</b>	<ul style="list-style-type: none"> <li>Proven performance</li> <li>API GL-5</li> <li>Limited slip</li> </ul>	Meets the requirements of API GL-5 and limited slip

PRODUCT	BENEFITS	SPECIFICATIONS AND APPROVALS (Full details of approvals for all products can be obtained from your Shell representative.)
Heavy-duty on-highway automatic transmissions		
<b>Shell Spirax S6 ATF ZM</b>	<ul style="list-style-type: none"> <li>n Maintenance saving</li> <li>n Maximum performance for ZF</li> </ul>	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)
<b>Shell Spirax S6 ATF VM Plus</b>	<ul style="list-style-type: none"> <li>n Maintenance saving</li> <li>n Maximum performance</li> <li>n Designed for Voith</li> </ul>	Approved by Voith H55.6336 Section 1.3; ZF TE-ML 04D, 14B, 16L and 17C; MAN 339 Type L1 and MAN 339 Type Z2 (Sach-Nr. 09.11003-0540); and MB-Approval 236.9, 238.22. Suitable for ZF TE-ML 03D, 09
<b>Shell Spirax S6 ATF A668</b>	<ul style="list-style-type: none"> <li>n Maintenance saving</li> <li>n Maximum performance</li> <li>n Designed for Allison TES 668</li> </ul>	Approved by Allison TES A668. Fulfills the performance characteristics of Voith H55.6335.xx; Volvo 97340/97341; Ford M; GM Dexron® II, IIIG and IIHH; MAN 339 Type V1; and JASO 1-A
<b>Shell Spirax S6 ATF A295</b>	<ul style="list-style-type: none"> <li>n Maintenance saving</li> <li>n Maximum performance</li> <li>n Designed for Allison TES 295</li> </ul>	Allison TES-295 AN-121008 and Allison TES-468 AN-121008 Suitable for use in applications calling for former Dexron® II applications; Voith DIWA transmissions; ZF TE-ML 14A, 14B, 14C; MAN 339 Z3; MB 236.91; and Caterpillar AT-1
<b>Shell Spirax S4 ATF HDX</b>	<ul style="list-style-type: none"> <li>n Proven performance</li> <li>n Versatile application</li> </ul>	Approved by ZF TE-ML 03D, 04D, 14B and 17C; MAN 339 Type Z2 and MAN 339 Type V2; MB-Approval 236.9; Voith 55.6336.XX (standard drain intervals up to 120,000 km); and Volvo 97341:396. Meets the requirements of Ford Mercon®; GM Dexron® IIIG; and Allison C-4
<b>Shell Spirax S3 ATF MD3</b>	<ul style="list-style-type: none"> <li>n Proven performance</li> <li>n Dexron® III, Mercon®</li> </ul>	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
<b>Shell Spirax S2 ATF A389</b>	<ul style="list-style-type: none"> <li>n Proven performance</li> <li>n Designed for Allison TES 389</li> </ul>	Allison TES-389 Voith 55.6335
<b>Shell Spirax S2 ATF D2</b>	<ul style="list-style-type: none"> <li>n Proven performance</li> <li>n Dexron® IID</li> </ul>	Meets requirements of GM Dexron® II and Allison C-4
<b>Shell Spirax S2 ATF AX</b>	<ul style="list-style-type: none"> <li>n Proven performance</li> <li>n Designed for MAN, Voith and ZF transmissions</li> </ul>	Ford Mercon Mercedes-Benz Sheet: 236.6 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
<b>Shell Spirax S1 ATF TASA</b>	<ul style="list-style-type: none"> <li>n Quality Type A Suffix A (TASA) automatic transmission and hydraulic fluid</li> </ul>	GM Type A, Suffix A
<b>Shell Spirax S1 ATF Type F</b>	<ul style="list-style-type: none"> <li>n Quality type F automatic transmission and hydraulic fluid</li> </ul>	Ford SQM-2C 9007-AA recommended Ford (service fill) M2C-33F, -33G Borg Warner recommended for some units (for initial-fill, service-fill and top-up)
Heavy-duty off-highway, mining drivelines		
<b>Shell Spirax S6 CXME</b>	<ul style="list-style-type: none"> <li>n Premium-performance</li> <li>n Approved by major manufacturers</li> <li>n Meeting latest specifications</li> </ul>	Caterpillar TO-4/TO-4M, ZF TE-ML 03C Suitable for use in applications where Allison C-4 type fluids are required
<b>Shell Spirax S6 CFD ME</b>	<ul style="list-style-type: none"> <li>n Premium-performance SAE 60</li> <li>n Cat FD-1 (synthetic) final drive and axle fluid</li> </ul>	CAT FD-1 or where CAT FD-1 (FDAO) is specified
<b>Shell Spirax S5 CFD M</b>	<ul style="list-style-type: none"> <li>n High-performance SAE 50/60</li> <li>n CAT FD-1 final drive and axle oil</li> </ul>	Caterpillar FD-1 or where CAT FD-1 (FDAO) is specified
<b>Shell Spirax S4 CX</b>	<ul style="list-style-type: none"> <li>n High-performance SAE 10W/30/50/60</li> <li>n Cat TO-4 transmission/drive train and hydraulic oil</li> </ul>	Approved by Caterpillar TO-4 (SAE 10W/30/50/60); ZF TE-ML 03C (SAE 10W/30) and 07F (SAE 30) 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



PRODUCT	BENEFITS	SPECIFICATIONS AND APPROVALS (Full details of approvals for all products can be obtained from your Shell representative.)
Heavy-duty off-highway, universal tractor transmission oil (UTTO) and super tractor oil universal (STOU)		
<b>Shell Spirax S6 TXME</b>	<ul style="list-style-type: none"> <li>High-performance 10W-30 UTTO</li> <li>Approved by major manufacturers</li> <li>Meeting highest specifications</li> </ul>	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, 05F, 17E and 21F Caterpillar TO-2 API Gear Performance API GL-4 Shell Spirax S6 TXME is also recommended for use in case equipment where fluids meeting MS 1207 and MS 1209 are specified.
<b>Shell Spirax S4 TXM</b>	<ul style="list-style-type: none"> <li>High-performance 10W-30 UTTO</li> <li>Approved by major manufacturers</li> <li>Meets latest specifications</li> </ul>	API Service Classification API GL-4 Case New Holland MAT-3525 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 Komatsu – recommended for use in certain construction equipment Clark 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 a SAE J 306 85W grade is recommended.
<b>Shell Spirax S4 TX</b>	<ul style="list-style-type: none"> <li>High-performance 10W-40 STOU</li> <li>Meets major manufacturers' requirements</li> </ul>	API Service Classification 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
<b>Shell Spirax S3 TLV</b>	<ul style="list-style-type: none"> <li>High-performance 5W-30 UTTO</li> <li>Meets major manufacturers' requirements</li> </ul>	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
<b>Shell Spirax S3 TX</b>	<ul style="list-style-type: none"> <li>Mainstream-performance UTTO</li> <li>Meets major manufacturers' requirements</li> </ul>	China JB/T 7282-2016 App. C, API GL-4, meets the requirement of Allison C4 (obsolete). Recommended for applications requiring John Deere JDM-J20C fluids
<b>Shell Spirax S3 T</b>	<ul style="list-style-type: none"> <li>Premium-performance 15W-40 STOU</li> <li>Meets major manufacturers' requirements (including Fendt Vario)</li> </ul>	API Service Classification 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
<b>Shell Spirax S2 T (WBF 100)</b>	<ul style="list-style-type: none"> <li>Fit-for-purpose 15W-30 UTTO</li> <li>Meets major manufacturers' requirements</li> </ul>	API Service Classification API GL-4 AGCO Powerfluid 821 XL Allison C-3 Caterpillar TO-2 Case/IH MS-1206/7/8/9 Ford/New Holland M2C-134D John Deere JDM J20C Massey Ferguson M1135 and M1143
<b>Shell Spirax S2 TQ</b>	<ul style="list-style-type: none"> <li>Fit-for-purpose 15W-30 UTTO</li> <li>Meets major manufacturers' requirements</li> <li>Reduces brake noise</li> </ul>	API Service Classification API GL-4 AGCO Q-186 Caterpillar TO-2 Case MS 1205/6/7/9 Ford New Holland MSC-86B/C John Deere J20C Kubota UTD Massey Ferguson M1135 and M1141 Some transmissions



For more information, please contact your Shell Lubricants representative.

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