



# FROM DOUBLING OIL LIFE TO SURPASSING GOALS



## Shell Tellus makes it possible

The Shell Tellus range of hydraulic oils covers a wide range of equipment and customer needs and offers improved wear protection, oil life and stick-slip control.

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**SHELL  
LUBRICANT  
SOLUTIONS**



**EVERY PART OF YOUR MACHINE OR PROCESS HAS BEEN METICULOUSLY ENGINEERED, SO YOU WANT TO BE SURE THAT YOU CHOOSE A LUBRICANT THAT HAS BEEN DESIGNED TO ENSURE THAT YOUR EQUIPMENT IS WELL PROTECTED AND WORKS EFFICIENTLY.**

The Shell Tellus range of hydraulic fluids has been developed to enable equipment operators to select the oil that will deliver optimum value to their operations through enhanced wear protection, long oil life and high system efficiency.



## WEAR PROTECTION

The hydraulic pump is the heart of your hydraulic system. Any wear can reduce efficiency and system service life. The Shell Tellus range of hydraulic fluids offers a range of options that can help to extend pump life, even under the most severe applications.

## OIL LIFE

The longer the oil life, the less fluid maintenance is required to help your equipment operate for longer without interruption. The Shell Tellus range of hydraulic fluids enables you to match the oil life of the fluid to your operational needs. It includes extra-long-life synthetic technologies capable of up to four times standard life<sup>1</sup>, through to cost-effective, reliable products for less-demanding applications.



## IMPROVED CLEANLINESS

All Shell Tellus products now meet the demanding cleanliness requirements of the DIN industry standard to help provide extra protection, improved filter performance and less maintenance.

## SYSTEM EFFICIENCY

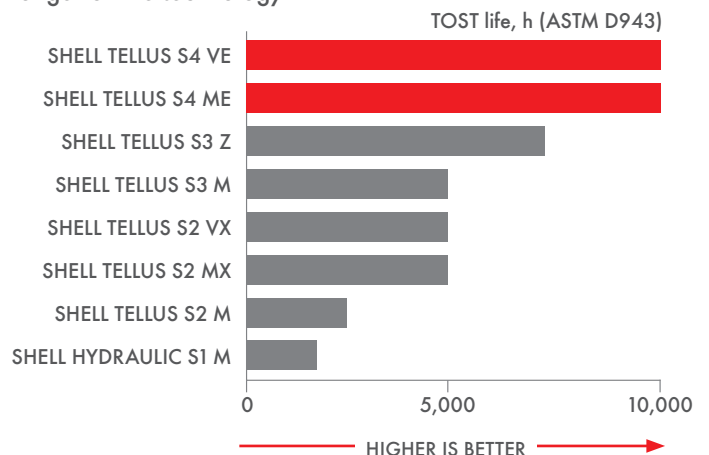
To help your equipment perform to its design standards, the hydraulic fluid needs to protect, lubricate and help transmit power in the most effective way possible. Shell Tellus hydraulic fluids can help maintain or even improve the efficiency of hydraulic systems. From Shell Tellus S4 VE, which can improve the energy efficiency of many hydraulic systems, to Shell Tellus S2 MX and Shell Tellus S2 VX that provide reliable air release, water separation, filterability, cleanliness and stick-slip performance, there is a choice that can help to optimise your system's efficiency and costs of operation.

## REAL-WORLD VALUE DELIVERY

While many other companies design their fluids for the individual components of a hydraulic system such as the pump, Shell Lubricants looks at the system more broadly. For instance, Shell Tellus S4 VE, which is based on synthetic gas-to-liquid (GTL) technology, has been designed to benefit the complete system. The result is a fluid that

- is statistically proven to help improve the efficiency and productivity of the system in which it is used. Up to a 6% hydraulic productivity improvement and up to a 21% lower energy loss from a hydraulic pump compared with a mineral oil have been found.<sup>2, 3</sup>
- can help to increase oil life by up to four times compared with conventional oils in the Shell range
- can help to prolong equipment life through excellent hydraulic pump wear protection.

## SHELL TELLUS S4 VE – for the latest energy saving and longer oil life technology



<sup>1</sup>Compared with other oils in the Shell range

<sup>2</sup>The actual savings will depend on the application, the current oil, the maintenance procedures, the equipment condition, the operating conditions and the intensity of hydraulic power usage.

<sup>3</sup>Based on tests run at 2,200 rpm with aeration (with all fluids were ISO VG 46) conducted by the Milwaukee School of Engineering Fluid Power Institute. The test methodology was presented at the ASME/BATH 2017 Symposium on Fluid Power and Motion Control.

## A RANGE OF HYDRAULIC FLUIDS TO MEET YOUR NEEDS

Shell has designed a portfolio of fluids that enables you to choose a product to match your needs.

		Core zinc technology		The Shell Tellus speciality range, including zinc-free technology		
		Stationary systems "M" range	Versatile systems "V" range	Stationary systems "M" range	Versatile systems "V" range	
↑ BETTER WEAR PROTECTION, LONGER OIL LIFE	<b>TIER 4</b>		<b>Shell Tellus S4 VE</b> <ul style="list-style-type: none"> <li>Energy efficiency</li> <li>Extended oil life</li> <li>Sludge and varnish control</li> </ul>	<b>Shell Tellus S4 ME</b> <ul style="list-style-type: none"> <li>Extra long life</li> <li>Energy saving</li> <li>Ashless</li> </ul>	<b>Shell Tellus S4 VK</b> <ul style="list-style-type: none"> <li>Ultra-low temperature</li> <li>Versatile applications</li> <li>Improved shear stability</li> </ul>	<b>Shell Tellus S4 VX</b> <ul style="list-style-type: none"> <li>Ultra-low temperature</li> <li>Versatile applications</li> <li>Ashless</li> </ul>
	<b>TIER 3</b>	<b>Shell Tellus S3 Z</b> <ul style="list-style-type: none"> <li>Longer oil life</li> <li>Enhanced protection</li> <li>Industrial applications</li> </ul>		<b>Shell Tellus S3 M</b> <ul style="list-style-type: none"> <li>Long life and improved protection</li> <li>Industrial applications</li> <li>Zinc free</li> </ul>	<b>Shell Tellus S3 V</b> <ul style="list-style-type: none"> <li>Long life and improved protection</li> <li>Versatile applications</li> <li>Ashless</li> </ul>	
	<b>TIER 2</b>	<b>Shell Tellus S2 MX</b> <ul style="list-style-type: none"> <li>Extra protection</li> <li>Industrial applications</li> <li>Long life</li> </ul>	<b>Shell Tellus S2 VX</b> <ul style="list-style-type: none"> <li>Extra protection</li> <li>Versatile applications</li> <li>Long life</li> </ul>	<b>Shell Tellus S2 MA</b> <ul style="list-style-type: none"> <li>Water tolerant</li> <li>Industrial applications</li> </ul>	<b>Shell Tellus S2 VA</b> <ul style="list-style-type: none"> <li>Water tolerant</li> <li>Versatile applications</li> </ul>	<b>Shell Tellus S2 VK</b> <ul style="list-style-type: none"> <li>Ultra-low temperature</li> <li>Versatile applications</li> </ul>
	<b>TIER 1</b>	<b>Shell Hydraulic SIM</b> <ul style="list-style-type: none"> <li>Reliable protection</li> <li>Industrial applications</li> </ul>				

### APPLICATION ICON KEY

Factory/machine applications	Mobile equipment/exterior use
Long life	Wet conditions
High load	Marine
Ultra-low temperature	Wind turbine

### PRODUCT-NAME SUFFIX KEY

A = Water tolerant
E = Energy saving, high efficiency
K = Low temperature
M = Manufacturing/machine: factory applications
V = Versatile applications
X = Extra/extreme performance
Z = Zinc technology

PRODUCT	BENEFITS	TECHNOLOGY	ISO VISCOSITY GRADES	SPECIFICATIONS AND APPROVALS (Full details of approvals for all products can be obtained from your Shell representative; approvals and claims will vary by viscosity grade.)
Shell Tellus S4 VE	<ul style="list-style-type: none"> <li>Energy efficiency</li> <li>Extended oil life</li> <li>Sludge and varnish control</li> </ul>	GTL synthetic zinc-based	HV/32, 46, 68	<b>Approved by</b> Bosch Rexroth (latest RDE 90245), Denison, Eaton and many other equipment manufacturers. <b>Industry standards:</b> ISO 11158 (HV); DIN 51524-3 (HVLP); GB 11118.1-2011 (L-HV) and GB 11118.1-2011 L-HS; and JCMAS* P 041:2004 normal and low temperature <small>*Meets this standard (JCMAS)</small>
Shell Tellus S4 ME	<ul style="list-style-type: none"> <li>Extra long life</li> <li>Energy saving</li> </ul>	Synthetic, ashless	HM/32, 46, 68	<b>Approved by</b> Denison, Eaton and many other equipment manufacturers. <b>Industry standards:</b> ISO 11158 (HM); DIN 51524-2 (HLP); and GB 11118.1-2011 (L-HM general and high pressure)
Shell Tellus S4 VX	<ul style="list-style-type: none"> <li>Ultra-low temperature</li> <li>Versatile application</li> <li>Shear stable</li> </ul>	GTL synthetic zinc-based	HV/32, 46,	<b>Approved by</b> Eaton and Denison. <b>Industry standards:</b> ISO 11158 (HV); DIN 51524-3 (HVLP)
Shell Tellus S4 VX	<ul style="list-style-type: none"> <li>Ultra-low temperature</li> <li>Versatile application</li> </ul>	Synthetic, ashless	HM/32	<b>Approved by</b> Komatsu Mining, Komatsu and DIETZ automation
Shell Tellus S3 Z	<ul style="list-style-type: none"> <li>Longer oil life</li> <li>Enhanced protection</li> <li>Industrial applications</li> </ul>	Group II/GTL synthetic blend	HM/32, 46, 68	<b>Approved by</b> Bosch Rexroth (latest RDE 90245), Denison, Eaton and many other equipment manufacturers. <b>Industry standards:</b> ISO 11158 (HM); DIN 51524-2 (HLP); and GB 11118.1-2011 (L-HM general and high pressure)
Shell Tellus S3 V	<ul style="list-style-type: none"> <li>Long life and improved efficiency</li> <li>Versatile application</li> </ul>	Group II mineral, ashless	HV/32, 46, 68	<b>Approved by</b> Denison, Eaton and many other equipment manufacturers. <b>Industry standards:</b> ISO 11158 (HV); and DIN 51524-3 (HVLP)
Shell Tellus S3 M	<ul style="list-style-type: none"> <li>Long life and improved protection</li> <li>Industrial applications</li> </ul>	Group II mineral, zinc free	HM/22, 32, 46, 68, 100	<b>Approved by</b> Denison, Eaton and many other equipment manufacturers. <b>Industry standards:</b> ISO 11158 (HM); DIN 51524-2 (HLP); and GB 11118.1-2011 (L-HM general and high pressure)
Shell Tellus S2 VX	<ul style="list-style-type: none"> <li>Extra protection</li> <li>Versatile application</li> <li>Long life</li> </ul>	Group II mineral, zinc-based	HV/15, 22, 32, 46, 68, 100	<b>Approved by</b> Bosch Rexroth (latest RDE 90245), Denison, Eaton and many other equipment manufacturers. <b>Industry standards:</b> ISO 11158 (HV), DIN 51524-3 (HVLP), GB 11118.1-2011 (L-HV)
Shell Tellus S2 MX	<ul style="list-style-type: none"> <li>Extra protection</li> <li>Industrial applications</li> <li>Long life</li> </ul>	Group II mineral, zinc-based	HM/32, 46, 68, 100	<b>Approved by</b> Bosch Rexroth (latest RDE 90245), Denison, Eaton and many other equipment manufacturers. <b>Industry standards:</b> ISO 11158 (HM), DIN 51524-2 (HLP), GB 11118.1-2011 (L-HM general and high pressure)
Shell Hydraulic S1 M	<ul style="list-style-type: none"> <li>Reliable protection</li> <li>Industrial applications</li> </ul>	Mineral, zinc-based	HM/32, 46, 68	<b>Industry standards:</b> ISO 11158 (HM); DIN 51524-2 (HLP) and DIN 51524-2 (HLP); and GB 11118.1-2011 (L-HM general)

## SPECIALITY GRADES

Shell Tellus S2 VA	<ul style="list-style-type: none"> <li>Extra protection</li> <li>Water tolerant</li> </ul>	Mineral, zinc-based, detergent	LHV/46	<b>Industry standards:</b> ISO 11158 (HV)* and DIN 51524-3 (HVLPD)* <small>*Meets DIN and ISO specifications but as high-degeneracy hydraulic oil not in the presence of water</small>
Shell Tellus S2 MA	<ul style="list-style-type: none"> <li>Extra protection</li> <li>Water tolerant</li> </ul>	Mineral, ashless, detergent	LHM/10, 32, 46	<b>Approved by</b> Arburg (VG 46) and Müller Weingarten (VG 46). <b>Industry standards:</b> ISO 11158 (HM)
Shell Fire-Resistant/Water-Glycol	Portfolio of fire-resistant hydraulic fluids			Contact your Shell representative for details
Shell Naturelle	Range of environmentally acceptable lubricants (EALs) including hydraulic fluids			Contact your Shell representative for details

## SERVICES

**Shell LubeAnalyst** Oil and equipment monitoring | 
 **Shell LubeCoach** Lubrication training | 
 **Shell LubeAdvisor** Expert advice | 
 **Shell LubeMatch** Find the right oil

## FULL PRODUCT AND SERVICE PORTFOLIO

Shell Tellus hydraulic fluids have offered benefits to users for 70 years. Shell is constantly investing to develop better lubrication solutions, including advanced synthetic technologies such as

- **Shell Omala S4 GXV** synthetic gear oil – for long life in demanding applications, Siemens MD approved
- **Shell Corena S4 R** air compressor oil – for up to 10,000 hours and extended up to 12,000 hours under certain conditions.

In addition, Shell provides the world-leading Shell LubeAnalyst oil condition monitoring service, which is designed to help improve your business performance.

Whatever your needs or application, Shell can provide a full range of oils and greases, including synthetic, high-performance products and additional services.



Find out more by visiting  
[www.shell.com/tellus](http://www.shell.com/tellus)