



# DESIGNED FOR OPTIMUM HYDRAULIC SYSTEM PERFORMANCE

WHAT TO RECOMMEND

## Shell Tellus S4 VE

**GAS-TO-LIQUID (GTL) HYDRAULIC OILS**  
KEEPING YOU MOVING 24/7 365 DAYS A YEAR



**LEADING WEAR PROTECTION<sup>1</sup>**  
GREATER RELIABILITY



**EXTENDED OIL LIFE<sup>2</sup>**  
REDUCED MAINTENANCE SPEND



**SUPERIOR ENERGY EFFICIENCY AND PRODUCTIVITY<sup>3</sup>**  
SYNTHETIC WITH GTL TECHNOLOGY

## SHELL TELLUS S4 VE – POWERING PERFORMANCE<sup>3</sup>



WHY

**LEADING WEAR PROTECTION<sup>1</sup>**  
GREATER RELIABILITY

**>3x** BETTER THAN THE FORMER DENISON STANDARD

**>4x** BETTER THAN THE BOSCH REXROTH TEST LIMIT

**>5x** GREATER WEAR RESISTANCE THAN THE EATON TEST LIMIT

**UNSURPASSED COPPER AND STEEL PROTECTION**

**EXTENDED OIL LIFE**  
LATEST SLUDGE CONTROL TECHNOLOGY<sup>3</sup>

UP TO **40,000h**  
IN A PLASTIC INJECTION MOULDING MACHINE<sup>4</sup>

**LASTS >30% LONGER<sup>5</sup> AND HAS >15x LESS SLUDGE<sup>6</sup> THAN MOBIL DTE TO EXCEL**

**SUPERIOR EFFICIENCY AND PRODUCTIVITY<sup>3</sup>**

UP TO **6%** GREATER HYDRAULIC PRODUCTIVITY<sup>3</sup>

UP TO **4.4%** ENERGY SAVINGS<sup>7</sup> IN A PLASTIC INJECTION MOULDING MACHINE

UP TO **5%** GREATER HYDRAULIC ENERGY EFFICIENCY<sup>3</sup>

UP TO **27%** FASTER AIR RELEASE<sup>8</sup>

**EXCELLENT STICK-SLIP PROPERTIES**

WHO TO

### RECOMMEND SHELL TELLUS S4 VE



TO **INCREASE** PRODUCTIVITY AND **REDUCE** ENERGY COSTS



TO **EXTEND** OIL AND EQUIPMENT LIFE AND **REDUCE** COSTLY BREAKDOWNS



TO **REDUCE** RISK TO **WARRANTY** OR EQUIPMENT **PERFORMANCE** ASSOCIATED WITH USING INFERIOR OILS

TECHNOLOGY

### GTL TECHNOLOGY

WE USE GTL TECHNOLOGY TO PRODUCE A CLEANER AND PURER BASE OIL WITH A HIGHER VISCOSITY INDEX, LOWER VOLATILITY, LOW-TEMPERATURE BENEFITS AND BETTER OXIDATION STABILITY. THIS HELPS SYNTHETIC SHELL TELLUS S4 VE TO **POWER PERFORMANCE, EXTEND OIL AND EQUIPMENT LIFE, AND AVOID COSTLY BREAKDOWNS.**

TRUST



OEMS AND PARTNERS USE AND TRUST

## Shell Tellus

SHELL LUBRICANTS HAS LONG-STANDING RELATIONSHIPS WITH MANY OF THE LEADING EQUIPMENT AND COMPONENT MANUFACTURERS.



<sup>1</sup>11.6 mg piston weight loss against the 50 mg limit in the Bosch Rexroth RDE 90245 RFT-APU-CL rig test. <sup>2</sup>10,000 hours in the Turbine Oxidation Stability Test (TOST) (ASTM D943). The test stops at 10,000 hours. <sup>3</sup>Productivity relates to the hydraulic pump volumetric efficiency when compared to a mineral oil in tests by the Milwaukee School of Engineering. <sup>4</sup>Based on Shell's technical experience with finished lubricants, additive chemistry and base oils and field and laboratory testing. No guarantees. Follow your equipment manufacturer's recommended maintenance schedule and maintain cool, clean, dry conditions for the oil. <sup>5</sup>Rotating pressure vessel oxidation test (RPVOT) (ASTM D2272). <sup>6</sup>Compared with the ISOT JIS K2514 limit. <sup>7</sup>Statistically validated, average savings per hour observed during a third party field trial using Shell Tellus S4 VE formulation ISO VG 32 and compared with the original ISO VG 46 fluid. <sup>8</sup>1.5 minutes air release time in the ASTM D3427 test compared with 2.0 and 4.6 minutes for competitor synthetic and mineral oils respectively. All values are based on a 95% confidence interval.

**SHELL LUBRICANT SOLUTIONS**

# SHELL LUBRICANTS PRODUCT SPECIFICATION

PRODUCT	BENEFITS	TECHNOLOGY	ISO VISCOSITY GRADES	SPECIFICATIONS AND APPROVALS <small>(Full details of approvals for all products can be obtained from your Shell representative; approvals and claims will vary by viscosity grade.)</small>
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 (LHM general and high pressure)
Shell Tellus S4 VK	<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 (LHM 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 (LHM 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 (LHV)
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 (LHM 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 (LHM 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-detergency 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



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