

# SHELL TELLUS S4 VE

ADVANCED, GAS-TO-LIQUIDS (GTL) TECHNOLOGY,  
SYNTHETIC HYDRAULIC FLUID

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**SHELL LUBRICANTS**  
TOGETHER ANYTHING IS POSSIBLE



# 6%

Shell Tellus S4 VE fluid enables customers to realise potential cost savings through longer equipment

service life and lower maintenance costs. Our new GTL-based

**Shell Tellus S4 VE can help to deliver total cost of ownership savings with up to a 6% hydraulic productivity improvement compared with a mineral oil.<sup>3</sup>**

## ENERGY EFFICIENCY AND PRODUCTIVITY

**Shell Tellus S4 VE** fluid can reduce the energy losses from hydraulic pumps by

up to

# 21%

COMPARED WITH A MINERAL OIL BASED FLUID.<sup>1</sup>



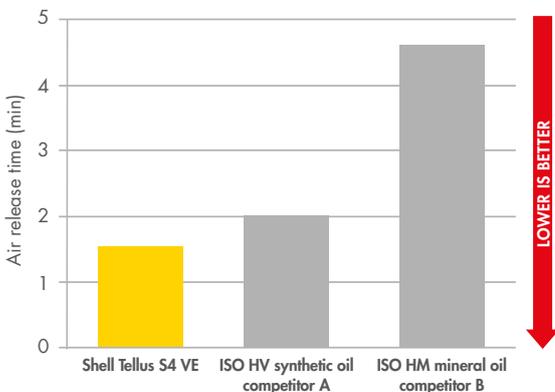
As the hydraulic oil moves under pressure through the lines, valves, and other hydraulic system components, energy can be lost. Shell Tellus S4 VE fluid can reduce the energy losses from hydraulic pumps by up to 21% compared with a mineral-oil-based fluid.<sup>1</sup>

Modern hydraulic systems with smaller reservoirs and sumps are susceptible to fluid aeration. Air in the fluid can lead to undesirable consequences such as reduced efficiency and responsiveness, and increased susceptibility to cavitation and other harmful system malfunctions, which can cause unplanned downtime and increased maintenance costs.

**Shell Tellus S4 VE** hydraulic fluid has a

# 27%

lower air release time when compared with a competitor's mineral-oil-based fluid, as shown in the ASTM D3427 air release test.<sup>2</sup>

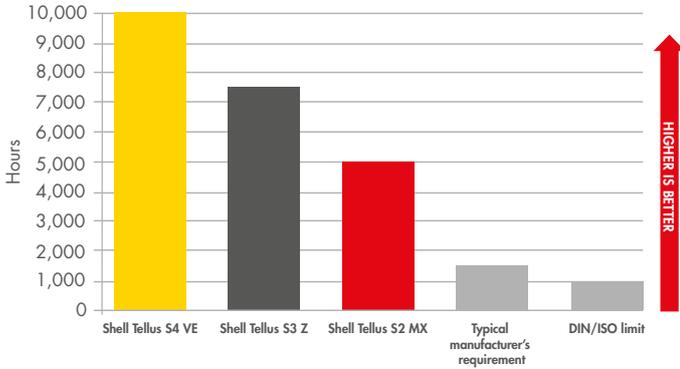


Air release test ASTM D3427<sup>2</sup>

**SHELL TELLUS S4 VE FLUID ENABLES CUSTOMERS TO REALISE POTENTIAL COST SAVINGS THROUGH LONGER EQUIPMENT SERVICE LIFE AND LOWER MAINTENANCE COSTS.**

## EXTENDED OIL LIFE

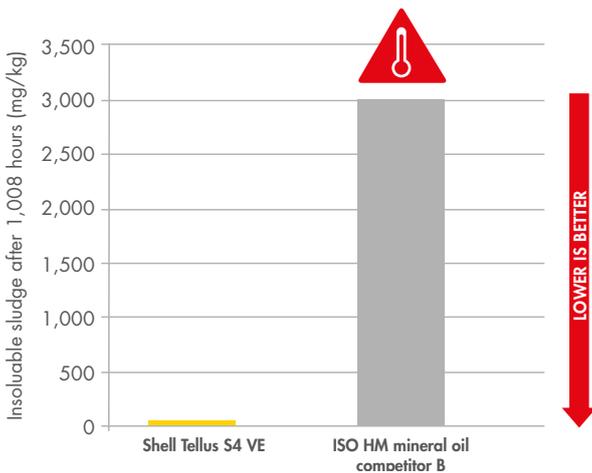
Shell Tellus S4 VE fluid is an advanced-performance, shear-stable hydraulic fluid with strong thermal and oxidative stability. In addition to meeting standard industry and equipment manufacturers' specification requirements, Shell Tellus S4 VE exceeds the 10,000 hours maximum duration that can be measured in the industry-standard turbine oil stability test (TOST).<sup>2</sup>



ASTM D943 TOST<sup>2</sup>

## SLUDGE CONTROL

Equipment operating conditions such as high temperatures or contaminants can increase the likelihood of sludge formation that may affect overall hydraulic system efficiency and lead to blocked filters and increased unplanned maintenance. Extreme temperature highs worldwide, especially during the summer, can lead to more frequent changes of lubricant, reduced equipment use or increased maintenance and costs for managing sludge and its associated problems. In the ASTM D7873 dry TOST, Shell Tellus S4 VE demonstrated up to 10 times less sludge in extreme heat compared with a competitor's mineral-oil-based fluid.<sup>3</sup>

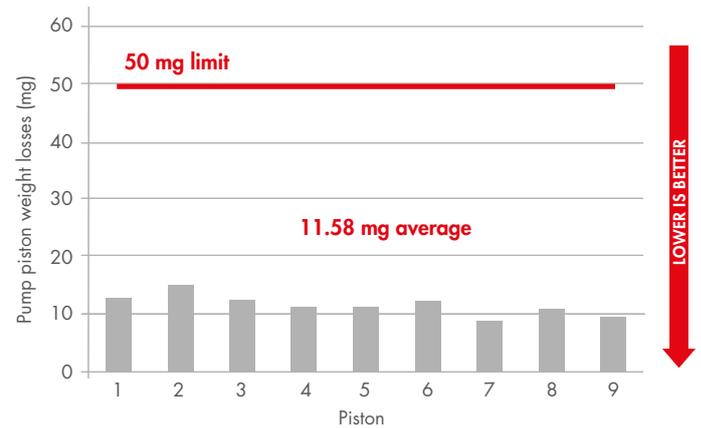


ASTM D7873 dry TOST<sup>2</sup>

## WEAR PROTECTION

With the increasing demands on hydraulic systems, a modern hydraulic fluid must work hard to protect the machine and minimise unplanned maintenance. Shell's internal calculations show that the new Bosch Rexroth test stresses the fluid 13 times more than a previous industry standard wear test to help ensure that the hydraulic fluid protects your hydraulic system.<sup>4</sup> Shell Tellus S4 VE shows four times less wear compared with the stringent Bosch Rexroth limit based on the pump piston weight loss.

Shell Tellus S4 VE also demonstrates low oil shearing, which could otherwise accelerate component wear and increase the total cost of ownership.



Bosch Rexroth RFT-APU-CL rig test

## WIDE TEMPERATURE RANGE

With a viscosity index of 160, in combination with robust shear stability and excellent low-temperature fluidity, Shell Tellus S4 VE is a year-round fluid that can protect from cavitation during cold start-ups and provides durability at higher operating temperatures. By protecting a machine over a wide temperature operating range, the fluid can help to increase hydraulic efficiency.

### SPECIFICATIONS AND APPROVALS

ASTM 6158-05 (HV Fluids); Bosch Rexroth RDE 90245; Danfoss; Denison Hydraulics (HF-0, HF-1, HF-2); DIN 51524 (HVLP oils); Eaton E-FDGN-TB002-E; GB 11118.1-2011 L-HV, GB 11118.1-2011 LHS Ultra Low and GB/T 33540.4-2017; ISO 11158 (HV fluids); and JCMAS P041:2004 normal temperature and low temperature

### FULL PRODUCT AND SERVICE PORTFOLIO

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

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<sup>1</sup>Milwaukee School of Engineering Fluid Power Institute. The energy loss relates to the hydraulic pump losses for a formulation of Shell Tellus S4 VE when compared with a conventional mineral oil fluid in standard hydraulic bench testing under controlled conditions. Results may vary based on operating conditions and equipment.

<sup>2</sup>Measured using industry-standard, third-party and internal competitor benchmarking tests. Actual effects and benefits may vary. No guarantees provided.

<sup>3</sup>Based on Shell's technical experience with finished lubricants, additive chemistry and base oils together with field and laboratory testing.

<sup>4</sup>Compared with Eaton Vickers 35VQ25 vane pump test ATS373