

# SHELL LUBRICANTS APPLICATION GUIDE



1a HYDRAULIC SYSTEM



2a DIESEL ENGINE – HIGH ASH  
2b DIESEL ENGINE – LOW ASH



3a TRANSMISSIONS: UTTO  
3b TRANSMISSIONS: STOU  
3c AXLES



4a BUSHES AND TRUCK PINS



KEY OPERATIONAL CHALLENGES	SOLUTIONS	WEAR PROTECTION AND DEPOSIT CONTROL FOR LONG ENGINE LIFE	LONG OIL LIFE FOR FEWER CHANGES AND REDUCED PRODUCT CONSUMPTION	FOR CLEANLINESS, LOW EMISSIONS AND FUEL ECONOMY
<b>ENGINES</b> <ul style="list-style-type: none"> <li>Bad road conditions: Dust and sand can cause abrasive wear that leads to reduced engine efficiency and higher fuel consumption</li> <li>When engines are overloaded, or operate in mountainous areas, they run hotter leading to oil oxidation and sludge formation that can cause blockages and equipment breakdowns</li> </ul>	SHELL RIMULA R5 LE 10W-30 / 10W-40	✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓
	SHELL RIMULA R4 L 15W-40	✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓
	SHELL RIMULA R4 X 15W-40	✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓
<b>UNIVERSAL TRACTOR TRANSMISSION OIL (UTTO)</b> <ul style="list-style-type: none"> <li>Extend oil drain intervals and maximise component life</li> <li>Improve fuel economy as the transmission affects efficiency of machine</li> <li>Dirty environment</li> <li>Presence of water</li> <li>OEM warranty is important for new machines</li> </ul>	SHELL SPIRAX S6 TXME	✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓
	SHELL SPIRAX S4 TXM	✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓
<b>HYDRAULICS</b> <ul style="list-style-type: none"> <li>If air is not released quickly there is a decrease in pressure and overall efficiency. This can cause bubbles to explode, reducing the volume of the high-pressure lubricant</li> <li>When deposits are formed, efficiency and precision are affected</li> <li>Stick-slipping can occur if seals are unprotected</li> </ul>	SHELL TELLUS S4 VE	✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓
	SHELL TELLUS S2 VX	✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓
<b>REAR AXLES</b> <ul style="list-style-type: none"> <li>Extend oil drain intervals and maximise component life</li> <li>Improve fuel economy</li> <li>Dirty environment</li> <li>High temperature due to limited cooling through air flow</li> </ul>	SHELL SPIRAX S3 ALS 80W-90 (LIMITED SLIP)	✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓
	SHELL SPIRAX S3 AX 80W-90	✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓
<b>WHEEL BEARINGS</b> <ul style="list-style-type: none"> <li>Water resistance or washout resistance</li> <li>Rust inhibition to protect against corrosion</li> <li>Anti-wear and extreme-pressure additives</li> </ul>	SHELL GADUS S3 V220C 2	✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓
	SHELL GADUS S2 V220 2	✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓



**SUPPORTED BY EXPERT SERVICES FROM SHELL**  
Actionable, cutting-edge advice, around the clock

**SHELL LUBRICANTS**  
TOGETHER ANYTHING IS POSSIBLE