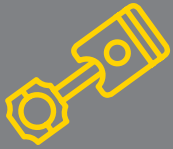




DELIVERING THE NEXT GENERATION OF HEAVY DUTY ENGINE OILS

MODERN ENGINES PLACE GREATER DEMANDS ON THE OIL



IMPROVED COMBUSTION EFFICIENCY

HIGHER TEMPERATURES

INCREASED POWER OUTPUT



BETTER FUEL EFFICIENCY



REDUCED EMISSIONS

SHELL LED THE DEVELOPMENT OF NEW API CK-4 OILS

2011

Development of new API heavy-duty diesel engine oil category begins

2013

Euro VI emission standards introduced

2016

API launches new CK-4 specifications and tests
Shell is first to announce API CK-4 heavy duty portfolio in North America

2017

Shell Rimula CK-4 portfolio launches worldwide
New ACEA emission standards proposed for introduction

9,000 CK-4 OIL TESTS

by Shell scientists – equivalent to 5 tests every day for 5 years



OUR LARGEST INVESTMENT

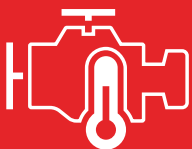
in HDDEO development to date

64 MILLION KM

of real-world testing – equivalent to 1,500+ times around the world!



SHELL RIMULA R4 L AND R5 LE (CK-4) PROVIDE ROBUST PROTECTION FOR TODAY'S ENGINES



ENHANCED OXIDATION CONTROL²

Guards against oil breakdown in hotter engine conditions

IMPROVED SHEAR STABILITY³

Resists loss of oil viscosity under severe stress

EXCELLENT AERATION CONTROL⁴

Helps prevent air bubbles within oil for sustained wear protection



IMPROVED FUEL ECONOMY⁵

A 1% fuel economy improvement could save 4 million tonnes of CO₂ per year in North America alone⁶

Shell RIMULA
Heavy Duty Diesel Engine Oil

























1. Earth's circumference is 40,075 km (64,000,000 divided by 40,075 is 1,597). 2. Volvo T13 test. 3. ASTM D7109. 4. Caterpillar Oil Aeration Test. 5. Shell Rimula R5 LE 10W-30 demonstrated fuel economy of up to 1.6% in on the road testing compared to 15W-40 oils and SAE 10W-40 demonstrated fuel economy of up to 1.0% in MAN Euro 4 engines compared to 15W-40 oils using city drive cycles. 6. Calculated based on average on highway engine fuel consumption.

Whether you transport people or goods, your business relies on your vehicles and their lubricated components. We appreciate the need to keep your bus, coach or truck fleets working efficiently, which means getting the most out of your engines, axles, gears, transmissions, wheel bearings and greased components.

Our international network of experts can work with you to design a package of products and services that will meet your specific needs and help to increase your profitability. We supply an extensive range of lubricants and we aim to help you to

- **choose the right products**
- **store and apply your lubricants correctly**
- **achieve continuous improvement through vehicle performance monitoring.**

Supporting fleet businesses across the world helps us to understand the crucial roles that lubricants play in your vehicles. Whether you want to increase engine efficiency to save fuel or to extend particulate filter life so that their replacement coincides with other maintenance activities, we have a wide range of equipment-manufacturer approved oils, fluids and greases from which you can choose.

INCREASINGLY EFFICIENT PROTECTION 	DIESEL ENGINES	GEARS	AXLES	AUTOMATIC TRANSMISSIONS	WHEEL BEARINGS AND GREASE POINTS	
					Wheel bearing and multipurpose extreme-pressure greases	Special applications
	Shell Rimula Ultra SYNTHETIC 	Shell Spirax S6 GXME SYNTHETIC 	Shell Spirax S6 AXME SYNTHETIC 	Shell Spirax S6 ATF ZM SYNTHETIC 	Shell Gadus S5 V220 SYNTHETIC 	Shell Gadus S4 V45AC SYNTHETIC TECHNOLOGY CENTRALISED SYSTEMS 
	Shell Rimula R6 IM SYNTHETIC 			Shell Spirax S6 ATF VM Plus SYNTHETIC TECHNOLOGY 		
	Shell Rimula R6 MS SYNTHETIC 			Shell Spirax S6 ATF A295 SYNTHETIC TECHNOLOGY 		
	Shell Rimula R5 IE SYNTHETIC TECHNOLOGY 					
	Shell Rimula R4 L 	Shell Spirax S3 G 	Shell Spirax S3 AX 	Shell Spirax S4 ATF HDX 	Shell Gadus S3 V220C 	Shell Gadus S3 V460D SHOCK LOAD AND FIFTH WHEEL GREASE 
	Shell Rimula R4 X 	Shell Spirax S2 G 	Shell Spirax S2 A 	Shell Spirax S2 ATF AX 	Shell Gadus S2 V220 	Shell Gadus S2 V220AD SHOCK LOAD AND FIFTH WHEEL GREASE 

In a controlled test, Wm Morrison Supermarkets vehicles using Shell Rimula Ultra used **2% less fuel** compared with identical trucks using a 10W-40 reference oil. Engine inspections showed that the components remained in excellent condition with no visible wear or deposits after 100,000 km.

After the trial, Shell Rimula Ultra, Shell Spirax S6 AXME axle oil and Shell Spirax S6 GXME gear oil were rolled out across the entire 700-truck fleet.



¹ The savings indicated are specific to the calculation date and mentioned site. These calculations may vary from site to site and from time to time, depending on, for example, the application, the operating conditions, the current products being used, the condition of the equipment and the maintenance practices.



Find out more by visiting
www.shell.com/lubricants

