

# SHELL RIMULA R3

HEAVY-DUTY DIESEL ENGINE OILS



DESIGNED TO MEET CHALLENGES

Shell Rimula R3 energised protection oils feature proven lubricant chemistry that adapts to your driving needs to provide extra protection. Featuring an active-detergent system to help keep pistons and other engine parts clean, it provides protection against wear for long engine life and protection against deposits for efficient engine performance.

## PERFORMANCE FEATURES

### EQUIPMENT MANUFACTURER ACCEPTANCE

- Shell Rimula R3 monogrades are approved for use in a variety of engine applications by leading OEMs.

### HIGH STANDARD OF PISTON CLEANLINESS

- The high thermal stability and oil oxidation resistance provide a high standard of piston cleanliness.

### LOW ENGINE WEAR AND LONG COMPONENT LIFE

- Overall engine cleanliness contributes to low engine wear, long component life, maintenance of power output, more operational stability and lower servicing costs.

## APPLICATIONS

### DEDICATED DIESEL ENGINE OIL PERFORMANCE

- Shell Rimula R3 monogrades have been formulated to provide robust engine performance in a variety of off-highway applications and older on-highway diesel vehicles.

### CONSTRUCTION INDUSTRY APPLICATION

- Engine oil technology is sometimes specified for use in the transmission and hydraulic applications. Shell Rimula R3 monogrades offer premium performance and protection for these applications.

### STATIONARY EQUIPMENT

- Shell Rimula R3 monogrades are suitable for certain stationary equipment, such as pumps, that run continuously under steady state conditions.

### DETROIT DIESEL 2-STROKE ENGINES

- Shell Rimula R3 oils should not be used in Detroit Diesel 2-stroke engines. An SAE 40 oil meeting the API CF-II Specification and having a Sulphated Ash % wt content of less than 1% should be used.

## SPECIFICATIONS, APPROVALS AND RECOMMENDATIONS

### R3 10W

- ACI: CF.

### R3+ 30

- API: CF
- MAN: 270
- Mercedes-Benz Approval: 228.0
- MTU: Category 1.

### R3+ 40

- API: CF
- ACEA: E2
- MAN: 270
- Mercedes-Benz Approval: 228.0
- MTU Category 1.

## TYPICAL PHYSICAL CHARACTERISTICS

CHARACTERISTICS	R3 10W	R3+ 30	R3+ 40
Kinematic Viscosity (ASTM D 445)			
@ 40°C mm <sup>2</sup> /s	43	93	140
@ 100°C mm <sup>2</sup> /s	7	11	14.5
Dynamic Viscosity @ -25°C mPa s (ASTM D 5293)	6240	-	-
Viscosity Index	122	103	102
Density @ 15°C kg/m <sup>3</sup>	885	890	895
Flash Point °C (COC)	219	242	250
Pour Point °C (ASTM D 97)	-33	-18	-15