

SHELL RIMULA R3 X

MULTI-GRADE HEAVY-DUTY DIESEL ENGINE OILS



DESIGNED TO MEET CHALLENGES

With a wide array of engine maker approvals, it is suitable for virtually all heavy-duty engines, non turbo-charged or turbo-charged, in on- and off-highway service.

Using modern multi-component chemistry, Shell Rimula R3 X gives all-round protection for turbo and non-turbo charged engines.

PERFORMANCE FEATURES

UNIQUE FORMULATION

- Shell Rimula R3 X uses exclusive formulations that have been proven in real world service to ensure the efficiency and life of your engine.

ENGINE CLEANLINESS

- High thermal stability provides a high standard of protection against piston deposits which, together with high performance dispersants, delivers excellent control of sludge and deposits in the engine.

LOW ENGINE WEAR

- The combination of active anti-wear additives and good engine cleanliness control engine wear gives long engine life, maintains engine power and efficiency and helps to lower servicing costs.

HIGH TEMPERATURE PROTECTION

- Shell Rimula R3 X has been demonstrated to resist thermal breakdown ensuring continued protection throughout the drain interval, even under severe conditions found in modern engines.

APPLICATIONS

With its wide range of on-highway truck maker approvals, Shell Rimula R3 X is particularly suitable for use in Japanese heavy-duty bus, coach and truck applications, including modern turbocharged engines.

Shell Rimula R3 X has been proven in rugged off-highway applications ranging from remote mining and quarrying operations to use in a wide range of agricultural machinery.

SPECIFICATIONS, APPROVALS AND RECOMMENDATIONS

- API: CH-4, CG-4, CF-4, CF
- ACEA: E5, E3
- JASO: DH-1
- Cummins: CES 20071, 76, 75, 72, 71
- MACK: E0-M, EO-M+
- MAN: M3275-1
- Mercedes-Benz Approval: 228.3
- MTU: Category 2
- Renault Trucks: RD-2
- Volvo: VDS-2.

MEETS THE SPECIFICATIONS FOR:

- IVECO T2 E5.

MEETS THE REQUIREMENTS FOR:

- Allison C-4.

TYPICAL PHYSICAL CHARACTERISTICS

CHARACTERISTICS	15W-40
Kinematic Viscosity (ASTM D 445) @ 40°C mm ² /s	105.4
@ 100°C mm ² /s	14.3
Dynamic Viscosity @ -20°C mPa s (ASTM D 5293)	6750
Viscosity Index (ASTM D 2270)	139
Density @ 15°C kg/m ³ (ASTM D 4052)	888
Flash Point °C (COC) (ASTM D 92)	233
Pour Point °C (ASTM D 97)	-33
Total Base Number mg KOH/g (ASTM D 2896)	11.5
Total Base Number mg KOH/g (ASTM D 4739)	11.2
Sulphated Ash % wt % (ASTM D 874)	1.59