



Shell Rimula X Monograde

High quality, heavy duty monograde diesel engine oil

Rimula X monograde oils are high quality heavy duty engine lubricants designed for use in diesel engines where monograde oils are specified.

Applications

- **Dedicated diesel engine oil performance**
Rimula X monogrades have been formulated to provide robust engine performance in a variety of off-highway applications or older on-highway diesel vehicles.
- **Construction Industry application**
Engine oil technology is sometimes specified for use in the transmission and hydraulic applications. Rimula X monogrades offer premium performance and protection for these applications.
- **Stationary Equipment**
Rimula X monogrades are suitable for certain stationary equipment, such as pumps, that run continuously under steady state conditions.

Performance Features and Benefits

- **Equipment manufacturer acceptance**
Rimula X monogrades are approved for use in a variety of engine application by leading OEMs.
- **High thermal stability and oxidation resistance**
The high thermal stability and oil oxidation resistance provide a high standard of piston cleanliness.
- **Cleaner engines**
Overall engine cleanliness contributes to low engine wear, long component life, maintenance of power output, more operational stability and lower servicing costs.

Specification and Approvals

ACEA	- E2*
API	- CF
Mercedes-Benz	- 228.0**
MAN	- 270**
MTU	- Type 1**

*SAE 40 and 50 grades only

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Detroit Diesel Two-stroke engines

Rimula X Oils should not be used in Detroit Diesel two-stroke engines. An SAE 40 oil meeting the API CF-II Specification and having a sulphated ash content of less than 1% should be used.

Shell recommends Rotella DD+ 40 for these applications.

Advice

Advice on applications not covered in this leaflet may be obtained from your Shell Representative.

**Health and Safety**

Guidance on Health and Safety are available on the appropriate Material Safety Data Sheet, which can be obtained from your Shell representative.

Protect the environment

Take used oil to an authorized collection point. Do not discharge into drains, soil or water.

Typical Physical Characteristics

Rimula X		10W	20W-20	30	40	50	
SAE Viscosity grade		10W	20W-30	30	40	50	
Kinematic Viscosity	ASTM D 445						
at 40°C	mm ² /s	43	68	93	140	212	
at 100°C	mm ² /s	7	8,8	11	14,5	19	
Dyn. Viscosity	ASTM D 5293						
at -25°C	mPa*s	6240		-	-	-	
at -15°C	mPa*s		8910				
Viscosity Index	ISO 2909	122	102	103	102	100	
Density at 15°C	kg/m ³	885	890	890	895	895	
Flash Point COC	°C	219	236	242	250	252	
Pour Point	°C	ISO 3016	-33	-21	-18	-15	-9

These characteristics are typical of current production. Whilst future production will conform to Shell's specification, variations in these characteristics may occur.