



Technical Data Sheet

Shell ROTELLA® T5 15W-40

- Low Emissions
- Better Low Temperature Flow

Premium Synthetic Blend Technology – Heavy duty diesel engine oil

Shell ROTELLA® T5 premium synthetic blend heavy duty engine oil with Triple Protection Plus™ technology has been enhanced with premium synthetic base oils plus advanced additive technology to protect against wear, deposits and oil breakdown PLUS better low temperature flow and extended drain capabilities*.

* Compared to conventional SAE 15W-40.



Performance, Features & Benefits

• Emissions system compatibility

Advanced low-ash formulation helps control the blocking or poisoning of exhaust after-treatment devices, helping maintain vehicle emission compliance and engine fuel efficiency.

• Premium Synthetic Blend

The use of premium synthetic base oil components provides Shell ROTELLA® T5 synthetic blend with the capability to improve cold starting and low temperature performance, without compromising engine protection or durability.

• Improved engine cleanliness

The advanced formulation delivers good engine cleanliness and protection against piston deposits ensuring engine and component reliability at extended oil drain intervals.

• Low emission engine use

Shell ROTELLA® T5 meets the requirements of the major North American engine manufacturers for low emission applications.

Specifications, Approvals & Recommendations

- API CK-4, CJ-4, CI-4 Plus, CI-4, CH-4, SN
- ACEA E9, E11
- JASO DH-2
- Allison TES 439
- Caterpillar ECF-3, ECF-2
- Cummins CES 20086, 20081
- Detroit Fluid Specification (DFS) 93K222, 93K218
- DTFR 15C100
- Deutz DQC III-18 LA
- Ford WSS-M2C171-F1
- MACK EO-S 4.5, EO-O Premium Plus
- MAN M 3775
- MTU Category 2.1
- Volvo VDS 4.5

* meets the engine performance of

For a full listing of equipment approvals and recommendations, please consult your local Shell Technical Helpdesk

Main Applications



Typical Physical Characteristics

Properties			Method	Shell ROTELLA T5 15W-40
Kinematic Viscosity	@ 40°C	mm ² /s	ASTM D445	111.2
Kinematic Viscosity	@ 100°C	mm ² /s	ASTM D445	14.9
Dynamic Viscosity	@ -20°C	mPa s	ASTM D5293	6 200
Viscosity Index			ASTM D2270	138
Total Base Number		mgKOH/g	ASTM D2896	8.5
Sulphated Ash		%	ASTM D874	1.0
Density	@ 15°C	kg/l	ASTM D4052	0.873
Flash Point (COC)		°C	ASTM D92	251
Pour Point		°C	ASTM D97	-37

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

Health, Safety & Environment

• Health and Safety

Shell ROTELLA® T5 is unlikely to present any significant health or safety hazard when properly used in the recommended application and good standards of personal hygiene are maintained.

Avoid contact with skin. Use impervious gloves with used oil. After skin contact, wash immediately with soap and water.

Guidance on Health and Safety is available on the appropriate Safety Data Sheet, which can be obtained from <https://www.epc.shell.com>

• Protect the Environment

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

Additional Information

• Advice

Advice on applications not covered here may be obtained from your Shell representative.