

Saved from manuals.plus.

Open the live page for links to other documents and user manuals.

[Manuals.plus](#) /

› [Shell](#) /

› Shell Rotella T1 30 Heavy Duty Diesel Engine Oil - 55 Gallon Drum User Manual

Shell 550019856

Shell Rotella T1 30 Heavy Duty Diesel Engine Oil - 55 Gallon Drum User Manual

Model: 550019856

PRODUCT OVERVIEW

Shell Rotella T1 Heavy Duty Diesel Engine oils are high-quality single-grade oils formulated to deliver excellent performance in diesel engines from all major manufacturers, as well as in gasoline, LPG, or LNG engines.



Image: A 55-gallon red drum prominently displaying "Shell ROTELLA" in white lettering. This drum contains Shell Rotella T1 30 Heavy Duty Diesel Engine Oil.

Key Features:

- **Wear Protection:** Provides excellent wear protection, contributing to engine durability.
- **Low Ash Content:** Minimizes deposit formation and helps keep intake ports clean.
- **All-Year Performance:** Designed for reliable performance across various temperatures and conditions.
- **Versatile Application:** Suitable for mixed applications, including older diesel engines and certain stationary engines.
- **Heavy Equipment Use:** Ideal for heavy equipment in construction, mining, or quarry operations.
- **Transmission & Hydraulic Systems:** Can be used in certain transmission and mobile hydraulic systems where mono-grade engine oils are recommended by the manufacturer.

- **Responsive Protection:** Features multi-functional, low ash additive technology in a synthetic base oil for continuously adapting protection.

SETUP AND STORAGE

This product is supplied in a 55-gallon drum. Proper handling and storage are crucial for safety and product integrity.

Receiving and Inspection:

- Upon delivery, inspect the drum for any signs of damage, leaks, or tampering.
- Verify that the product label matches the intended order (Shell Rotella T1 30 Heavy Duty Diesel Engine Oil, 55 Gallon Drum, Model 550019856).

Storage Guidelines:

- Store the drum in a cool, dry, well-ventilated area, away from direct sunlight and extreme temperatures.
- Keep the drum sealed tightly when not in use to prevent contamination and moisture ingress.
- Store away from incompatible materials, including strong oxidizers.
- Ensure the storage area complies with local regulations for flammable or combustible liquids, if applicable.
- For long-term storage, drums should ideally be stored horizontally to prevent water accumulation on the top, which could lead to corrosion and contamination.

Handling Precautions:

- Use appropriate lifting equipment (e.g., drum dolly, forklift with drum attachment) when moving the 431-pound drum.
- Wear personal protective equipment (PPE) including gloves and eye protection when handling the oil.
- Avoid prolonged or repeated skin contact with used oil.

OPERATING INSTRUCTIONS

Shell Rotella T1 30 is designed for use in specific engine and hydraulic systems. Always refer to the equipment manufacturer's manual for recommended oil specifications and fill volumes.

Application Areas:

- **Diesel Engines:** Suitable for heavy-duty diesel engines requiring a SAE 30 mono-grade oil.
- **Gasoline, LPG, or LNG Engines:** Can be used in these engine types where a SAE 30 mono-grade oil is specified.
- **Transmission Systems:** Applicable in certain transmission systems that recommend mono-grade engine oils.
- **Mobile Hydraulic Systems:** Suitable for mobile hydraulic systems where mono-grade engine oils are specified.

Oil Change Procedure:

1. Ensure the engine or system is at operating temperature to facilitate complete drainage.
2. Locate the drain plug and place a suitable container to collect the used oil.
3. Drain all old oil completely.
4. Replace the oil filter if recommended by the equipment manufacturer.
5. Refill with Shell Rotella T1 30 oil using a clean funnel and pump, ensuring the correct volume is added as per the equipment manual.
6. Check the oil level using the dipstick or sight glass.
7. Run the engine briefly and re-check the oil level, topping up if necessary.

Note: Always consult your equipment's service manual for specific oil change intervals and procedures.

MAINTENANCE

Regular maintenance, including proper oil management, is critical for the longevity and optimal performance of your equipment.

Oil Level Checks:

- Regularly check the oil level in your engine or hydraulic system, ideally before each major operation or daily for heavy-use equipment.
- Maintain the oil level between the minimum and maximum marks on the dipstick or sight glass.
- Low oil levels can lead to insufficient lubrication and premature wear. Overfilling can cause foaming and seal damage.

Oil Quality Monitoring:

- While Shell Rotella T1 is designed for durability, monitor the oil for signs of degradation such as excessive darkening, unusual odors, or the presence of contaminants (e.g., water, fuel, metal particles).
- Consider oil analysis for critical equipment to determine optimal oil change intervals and detect potential issues early.

Disposal of Used Oil:

Used engine oil is a hazardous waste and must be disposed of responsibly. Do not pour used oil down drains or onto the ground.

- Collect used oil in a sealed, labeled container.
- Take used oil to an authorized recycling center or collection point. Many automotive service centers and municipal waste facilities accept used oil for recycling.
- Comply with all local, state, and federal regulations regarding the disposal of used lubricants.

TROUBLESHOOTING

This section addresses common issues related to engine oil and provides general guidance. For specific engine problems, consult your equipment's service manual or a qualified mechanic.

Common Oil-Related Issues:

- **Excessive Oil Consumption:**
 - *Possible Causes:* Leaks, worn engine components (piston rings, valve seals), incorrect oil viscosity.
 - *Solution:* Check for visible leaks, consult a mechanic for internal engine inspection. Ensure correct oil viscosity (SAE 30) is used.
- **Oil Pressure Warning Light:**
 - *Possible Causes:* Low oil level, faulty oil pressure sensor, clogged oil filter, worn oil pump, incorrect oil viscosity.
 - *Solution:* Immediately check oil level and top up if low. If light persists, stop engine and seek professional diagnosis.
- **Oil Appears Milky or Foamy:**
 - *Possible Causes:* Water or coolant contamination.
 - *Solution:* This indicates a serious issue (e.g., head gasket failure, cracked block). Stop engine and have it inspected by a professional.

- **Engine Noise (Tapping/Knocking):**
 - *Possible Causes:* Insufficient lubrication due to low oil level or degraded oil, worn engine bearings.
 - *Solution:* Check oil level. If noise persists after ensuring proper oil level and quality, professional inspection is required.

SPECIFICATIONS

Attribute	Detail
Product Name	Shell Rotella T1 30 Heavy Duty Diesel Engine Oil
Brand	Shell
Model Number	550019856
Viscosity Grade	SAE 30
Container Size	55 Gallon Drum
Item Weight	Approximately 431 pounds
Package Dimensions	Approximately 35 x 23 x 23 inches
Vehicle Service Type	Truck (and other heavy equipment, gasoline, LPG, LNG engines as specified)
UPC	021400002005
Manufacturer	Rotella
First Available Date	November 17, 2010

WARRANTY AND SUPPORT

Return Policy:

This product is typically eligible for a 30-day easy return policy from the point of purchase. Please refer to your retailer's specific return terms and conditions for detailed information.

Manufacturer Support:

For technical inquiries, product data sheets, or specific application guidance regarding Shell Rotella T1 oils, please visit the official Shell Lubricants website or contact their customer support directly. Contact information can usually be found on the product's Safety Data Sheet (SDS) or the manufacturer's official website.

For purchase-related support, including order status or delivery issues, please contact the seller from whom you purchased the product (e.g., Autoplicity).

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Open the live page

<https://manuals.plus/asin/B004CR3PY0>

More documents and user manuals: **<https://manuals.plus/>**