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Motul 104299

Motul 7100 15W-50 Full Synthetic Motorcycle Engine Oil Instruction Manual

This manual provides comprehensive instructions for the proper use, maintenance, and safety of Motul 7100 15W-50 Full Synthetic Road & Off-Road Motorcycle Engine Lubricant, Model 104299.

1. PRODUCT OVERVIEW

The Motul 7100 15W-50 is a high-performance, 100% synthetic 4-stroke engine lubricant designed for sport and adventure road and off-road motorcycles. It features Ester Technology for enhanced engine response, improved shifting, and high protection. This lubricant is formulated to meet the demands of various motorcycle applications, ensuring optimal performance and engine longevity.



Image 1.1: Front view of the Motul 7100 15W-50 4-Liter bottle, highlighting its Ester Technology and suitability for sport and adventure motorcycles.

DESIGNED FOR ANY ADVENTURE

7100
SPORT & ADVENTURE
ROAD & OFF-ROAD

ESTER
100% SYNTHETIC

4T
MOTOR OIL

ENGINE RESPONSE

IMPROVED SHIFTING

HIGH PROTECTION

Image 1.2: Visual representation of the benefits of Ester Technology, including wet or dry clutch compatibility, stronger oil film resistance, outstanding gearbox protection, sharper engine response, enhanced clutch grip for improved shifting, and high temperature resistance.

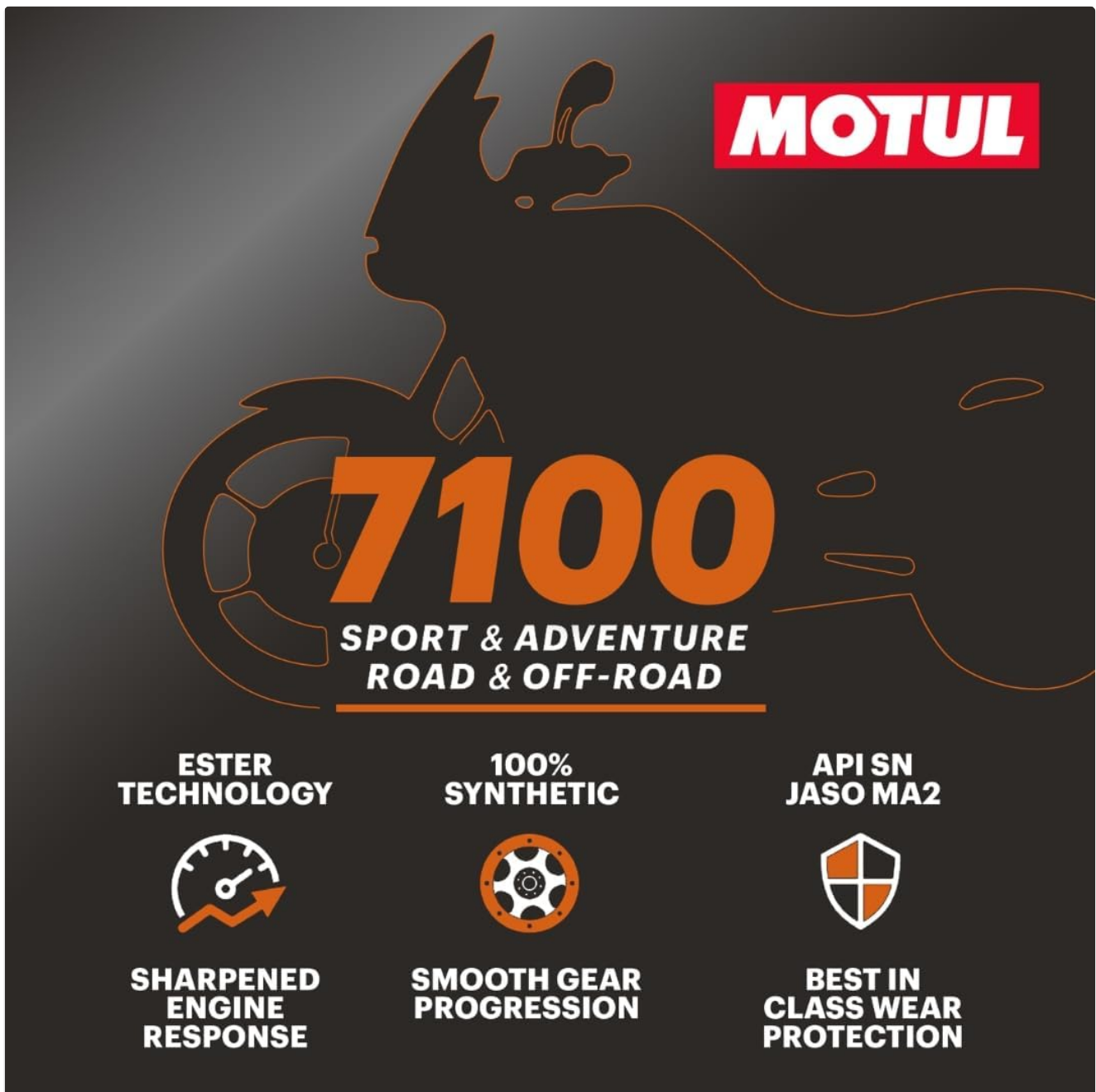


Image 1.3: A collage showcasing different types of motorcycles and off-road vehicles, emphasizing the product's versatility for various adventure and sport applications.

2. SAFETY INFORMATION

Always prioritize safety when handling engine oil. Refer to your vehicle's owner's manual for specific safety precautions related to oil changes and maintenance.

- **Eye and Skin Contact:** Avoid contact with eyes and skin. In case of eye contact, flush thoroughly with water. In case of skin contact, wash thoroughly with soap and water.
- **Ingestion:** Do not induce vomiting if swallowed. Seek medical attention immediately.
- **Ventilation:** Use in a well-ventilated area.
- **Storage:** Keep out of reach of children. Store in a cool, dry place away from direct sunlight and heat sources.
- **Disposal:** Dispose of used oil responsibly according to local regulations. Do not pour used oil down drains or onto the ground.
- **Proposition 65 Warning:** This product may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

3. SPECIFICATIONS

Detailed technical specifications for Motul 7100 15W-50 Motor Oil.

Property	Value
Viscosity	15W-50
Brand	Motul
Vehicle Service Type	Motorcycle
Automotive Fit Type	Universal Fit
Size	4L
SAE J300 Viscosity Grade	15W-50
Model Number	104299
Item Weight	5.3 pounds
Product Dimensions	7.28 x 4.92 x 11.42 inches
OEM Part Number	7100 15W50 4T 4L

PROPERTIES

Color	Visual	Red
Viscosity grade	SAE J 300	15W-50
Density at 20°C (68°F)	ASTM D1298	0.864
Viscosity at 40°C (104°F)	ASTM D445	126.5 mm ² /s
Viscosity at 100°C (212°F)	ASTM D445	18.0 mm ² /s
Viscosity Index	ASTM D2270	158.0
Pour point	ASTM D97	-30.0 °C / -22.0 °F
Flash point	ASTM D92	236.0 °C / 457.0 °F
TBN	ASTM D2896	8.4 mg KOH/g

MOTUL



Image 3.1: Detailed properties table for Motul 7100 15W-50, including color (red), viscosity grade, density, viscosity at 40°C and 100°C, viscosity index, pour point, flash point, and TBN.



Image 3.2: Information on API SN and JASO MA2 ratings, indicating suitability for modern motorcycle engines with wet clutches.

4. SETUP & PREPARATION

4.1 Required Tools and Materials

- Motul 7100 15W-50 Engine Oil (appropriate volume for your motorcycle)
- New oil filter (specific to your motorcycle model)
- Drain pan
- Socket wrench or appropriate tool for drain plug
- Oil filter wrench
- Funnel
- Clean rags or shop towels
- Torque wrench (for drain plug and oil filter)
- New crush washer for drain plug (recommended)
- Gloves and eye protection

4.2 Pre-Installation Checks

- Ensure your motorcycle is on a level surface and stable (e.g., on a center stand or paddock stand).
- Allow the engine to cool down slightly, but still be warm, to ensure oil drains thoroughly.
- Consult your motorcycle's owner's manual for the exact oil capacity, recommended oil filter, and torque specifications for the drain plug and oil filter.

5. OPERATING INSTRUCTIONS (OIL CHANGE PROCEDURE)

Performing a regular oil change is crucial for engine health. Follow these general steps, always referring to your motorcycle's specific service manual.

1. **Drain Old Oil:** Place the drain pan beneath the engine's oil drain plug. Remove the drain plug and allow all the old oil to drain completely.
2. **Replace Oil Filter:** Remove the old oil filter using an oil filter wrench. Apply a thin film of new Motul 7100 oil to the rubber gasket of the new oil filter before installing it. Hand-tighten the new filter, then tighten an additional 1/4 to 1/2 turn with the wrench, or to the torque specified in your manual.
3. **Reinstall Drain Plug:** Replace the crush washer on the drain plug (if applicable) and reinstall the drain plug. Tighten to the manufacturer's specified torque.
4. **Add New Oil:** Using a funnel, slowly pour the recommended amount of Motul 7100 15W-50 engine oil into the oil fill opening.
5. **Check Oil Level:** Start the engine and let it run for a few minutes to circulate the new oil. Turn off the engine and wait a few minutes for the oil to settle. Check the oil level using the dipstick or sight glass, adding more oil if necessary until it reaches the correct level.
6. **Inspect for Leaks:** Visually inspect the drain plug and oil filter for any signs of leaks.

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Video 5.1: An official Motul USA video demonstrating an oil change procedure using Motul 7100 oil. This video provides a visual guide to the steps outlined above.

6. MAINTENANCE

Regular maintenance with Motul 7100 15W-50 ensures peak engine performance and longevity.

- **Oil Change Intervals:** Adhere strictly to your motorcycle manufacturer's recommended oil change intervals. Factors like riding style (e.g., aggressive, track use, off-road) and environmental conditions may necessitate more frequent changes.
- **Check Oil Level Regularly:** Periodically check your engine oil level, especially before long rides, and top up with Motul 7100 15W-50 if needed.
- **Filter Replacement:** Always replace the oil filter with every oil change to maintain optimal filtration and prevent contaminants from circulating in the engine.

7. TROUBLESHOOTING

Common issues related to engine oil and potential solutions.

Issue	Possible Cause	Solution
Low Oil Level	Oil consumption, leaks, insufficient fill	Check for leaks, top up to correct level, monitor consumption.

Oil Leakage	Loose drain plug, faulty oil filter gasket, damaged seals	Tighten drain plug/filter to spec, replace crush washer/gasket, inspect seals.
Engine Noise (e.g., knocking, ticking)	Low oil pressure, incorrect oil type, worn engine components	Check oil level/pressure, ensure correct oil viscosity, consult a mechanic.
Excessive Oil Consumption	Worn piston rings, valve seals, or turbocharger (if applicable)	Monitor oil level closely, consult a qualified mechanic for diagnosis.

8. WARRANTY INFORMATION

Motul products are manufactured to high-quality standards. For specific warranty details regarding this product, please refer to the official Motul website or contact Motul customer support. Keep your purchase receipt as proof of purchase.

9. SUPPORT & CONTACT

For further assistance, technical support, or inquiries about Motul products, please visit the official Motul website or contact their customer service department.

- **Official Motul Website:** www.motul.com
- **Motul USA Store:** [Motul Store on Amazon](#)

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Video 9.1: An official Motul USA video highlighting Motul's role as the official lubricant of King of the Baggers, showcasing product testing and reliability in extreme racing conditions.

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Video 9.2: An official Motul USA video featuring Vance & Hines Racing and Hayden Gillim, discussing the importance of quality lubricants in competitive racing.

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Video 9.3: An official Motul USA video featuring the Saddlemen Racing Team and Cory West, emphasizing the reliability and performance of Motul products in racing.

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Video 9.4: An official Motul USA video titled 'At Motul We Don't Just Make Oil, We Reinvent It Every Day', showcasing the brand's commitment to innovation and quality in lubricant technology.