



Technical Bulletin 199

09.2019

Contents

Item	Subject	Model Affected
199.1	Engine Oil Level Inspection	Rocket 3 GT, Rocket 3 R, Rocket 3 TFC

Item: 199.1
Description: Engine Oil Level Inspection
Model Affected: Rocket 3 GT, Rocket 3 R, Rocket 3 TFC

A new oil grade and a new procedure for the engine oil level inspection has been introduced for the above models.

The oil grade, which is to be used for these models, is a semi or fully synthetic 15W/50 motorcycle engine oil which meets specification API SH (or higher) and JASO MA, such as Castrol Power 1 4T.

Caution

The new method of checking the engine oil is especially important to ensure the oil capacities are distributed correctly.

If this method is not followed correctly, there will be an inaccurate oil level shown on the engine oil dipstick.

A new procedure for oil level inspection has been introduced because these models have a dry sump engine. The following points are especially important for an accurate oil level to be shown on the dip stick.

- The motorcycle is on level ground and on its side stand.
- Never check or adjust the engine oil when the engine is hot.
- The engine must be cold at the start of the engine oil level inspection.
- Start the engine and run at idle for 60 - 90 seconds.
- Do not operate the throttle while the engine is at idle. This will give an inaccurate oil level on the engine oil dipstick.
- Stop the engine, wait for at least three minutes to allow the oil to settle then check the engine oil level.

Engine Oil Level Inspection

In order for the engine, transmission, and clutch to function correctly, maintain the engine oil at the correct level, and change the oil and oil filter in accordance with scheduled maintenance requirements.

Warning

Never start the engine or run the engine in a confined area. Exhaust fumes are poisonous and can cause loss of consciousness and death within a short period of time. Always operate your motorcycle in the open-air or in an area with adequate ventilation.

Warning

Motorcycle operation with insufficient, deteriorated, or contaminated engine oil will cause accelerated engine wear and may result in engine or transmission seizure. Seizure of the engine or transmission may lead to loss of motorcycle control and an accident.

Warning

If the engine has recently been running, the exhaust system will be hot.

Before working on or near the exhaust system, allow sufficient time for the exhaust system to cool as touching any part of a hot exhaust system could cause burn injuries.

Caution

Running the engine with insufficient oil will cause engine damage. If the low oil pressure indicator remains on, stop the engine immediately and investigate the cause.

Caution

Never check or adjust the engine oil when the engine is hot.

Any attempt to check or adjust the engine oil when the engine is hot may result in insufficient engine oil causing engine damage.

Always check or adjust the engine oil when the engine is cold.

Caution

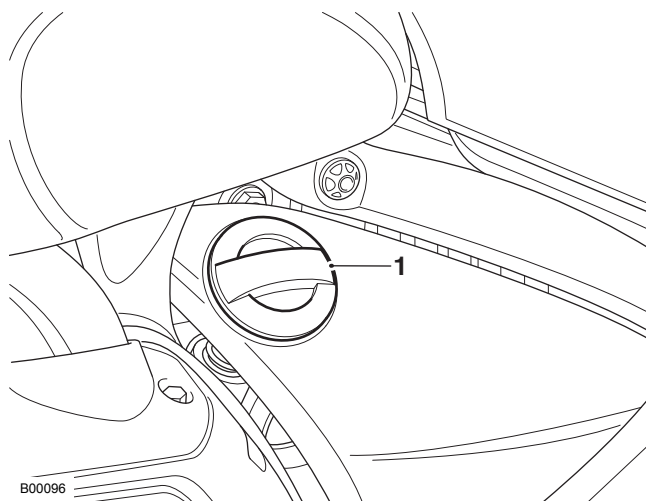
An accurate indication of the level of oil in the engine is only shown when the engine is cold and the motorcycle is on the side stand.

This method of checking the engine oil is especially important to ensure the oil capacities are distributed correctly because this model has a dry sump engine. Failure to follow this method will result in an inaccurate indication of oil in the engine.

- Make sure the engine is cold.
- Start the engine and run at idle for 60 - 90 seconds.

Note:

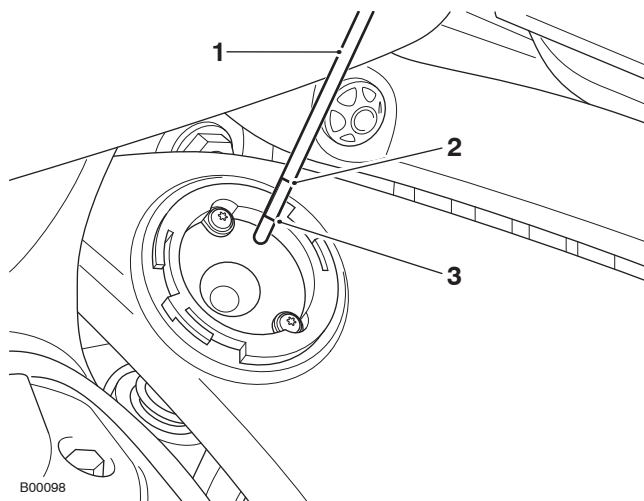
- **Do not operate the throttle while the engine is at idle. This will give an inaccurate oil level on the engine oil dipstick.**
- Stop the engine, then wait for at least three minutes to allow the oil to settle.
- Turn the oil filler cap anticlockwise and remove it.



1. Oil filler cap

- Remove the oil dipstick from the oil filler tube, wipe the dipstick clean and refit into the oil filler tube, making sure to push the engine oil dipstick fully in.

- Remove the engine oil dipstick.
- The engine contains a sufficient amount of oil if the oil level is between the minimum and maximum marks on the engine oil dipstick.



1. Engine oil dipstick
2. Maximum limit
3. Minimum limit

- If the level is near or below the minimum mark, add the recommended engine oil, a little at a time, up to the maximum mark on the engine oil dipstick.

Note:

- **Make sure no foreign matter or contamination enters the engine during an engine oil change or top up. Contamination entering the engine may lead to engine damage.**
- Once the correct level is reached, fit the engine oil dipstick and the oil filler cap.

For the engine oil and filter renew, the method described in the Owner Handbook and Service Manual must be followed as it also includes the important points listed above.

Circulation

Initial and date when read and return to central file holder

Service Manager	Parts Manager	Sales Manager	Workshop Supervisor	Technician 1	Technician 2