

Engine oil level check

NOTICE

- When starting the engine to check the oil level on land, make sure to connect a garden hose to the watercraft for proper water supply.
- Make sure that debris or water does not enter the oil filler hole.

1. Check:

- Engine oil level
Not at the proper level → Add or extract the engine oil.



Recommended engine oil
YAMALUBE 4W or 4-stroke motor oil

Recommended engine oil grade
API
API SG, SH, SJ, SL

Recommended engine oil type
SAE
SAE 10W-30, 10W-40, 20W-40, 20W-50

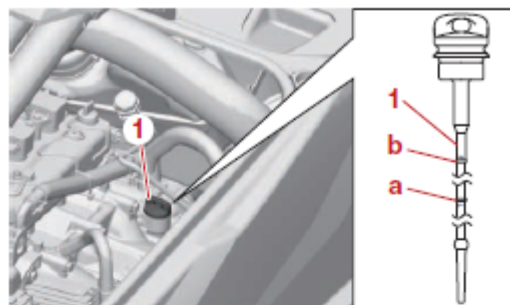
- Place the watercraft in a horizontal position.
- Start the engine and warm it up for 6 minutes or more at engine idle speed.

TIP:

Warm up the engine an additional 5 minutes if the ambient temperature is 20 °C (68 °F) or less.

- Stop the engine.
- Remove the oil tank filler cap "1", wipe the gauge clean, and then install the oil tank filler cap "1" into the oil tank completely.

- Remove the oil tank filler cap "1" again to check that the oil level is between the minimum level mark "a" and maximum level mark "b" on the gauge.



- If the engine oil is below the minimum level mark, add sufficient oil of the recommended type to raise it to the correct level.
- If the engine oil is above the maximum level mark, extract oil using an oil changer to lower it to the correct level.
- Install the oil tank filler cap.

Engine oil replacement

WARNING

Be careful when handling the engine oil to avoid burns. The engine oil is hot immediately after the engine is turned off.

NOTICE

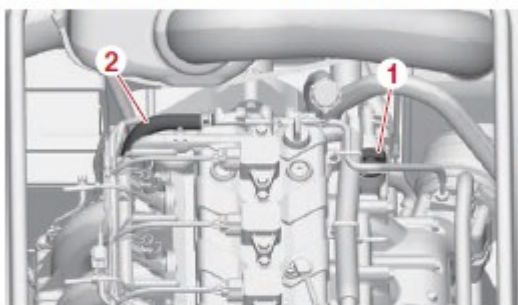
- When starting the engine to check the oil level on land, make sure to connect a garden hose to the watercraft for proper water supply.
- Make sure that debris or water does not enter the oil filler hole.

- Drain:
 - Engine oil
 - Place the watercraft in a horizontal position.
 - Start the engine and warm it up for 6 minutes or more at engine idle speed.

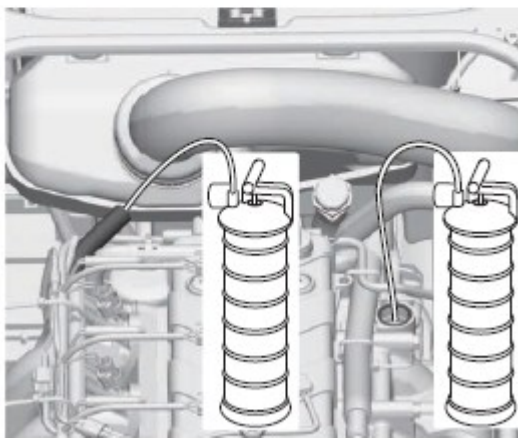
TIP:

Warm up the engine an additional 5 minutes if the ambient temperature is 20 °C (68 °F) or less.

- c. Stop the engine.
- d. Remove the oil tank filler cap "1".
- e. Disconnect the oil extraction hose "2".



- f. Extract the engine oil using the oil changer.



- g. Connect the oil extraction hose.

2. Fill:

- Engine oil



Recommended engine oil
YAMALUBE 4W or 4-stroke
motor oil

Recommended engine oil grade
API

API SG, SH, SJ, SL

Recommended engine oil type
SAE

SAE 10W-30, 10W-40, 20W-40,
20W-50

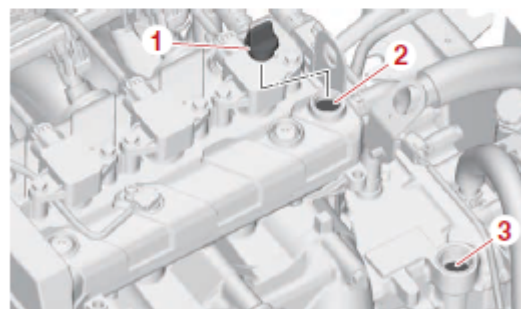
Engine oil quantity without oil filter
replacement

3.2 L (3.38 US qt, 2.82 Imp.qt)

Engine oil quantity with oil filter
replacement

3.4 L (3.59 US qt, 2.99 Imp.qt)

- a. Remove the oil filler cap "1".
- b. Pour half of the specified amount of the recommended engine oil into each of two oil filler holes "2" and "3".



- c. Install:
 - Oil tank filler cap
 - Oil filler cap
- d. Check: See "Engine oil level check" (3-4).
 - Engine oil level
 - "Engine oil level check" (3-4)

Oil filter replacement

1. Remove:

- Oil filter

a. Place a rag under the oil filter "1".

TIP:

- Punch a hole in the top of the oil filter using a nail or the like so the filter can breathe and drain the majority of oil inside of it into the engine. This will help minimize oil spillage from the filter during its removal.
- Do not use a tool, such as drills, that may cause metal shavings to fall into the filter.

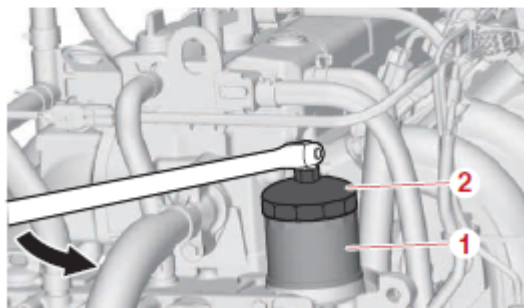
b. Loosen the oil filter "1" 360 degrees using the special service tool "2", and then allow the filter to sit in this position for 2-3 minutes.


c. While waiting for the previous step to complete, extract the engine oil. See "Engine oil replacement" (3-5).

d. Remove the oil filter "1" using the special service tool "2".

TIP:

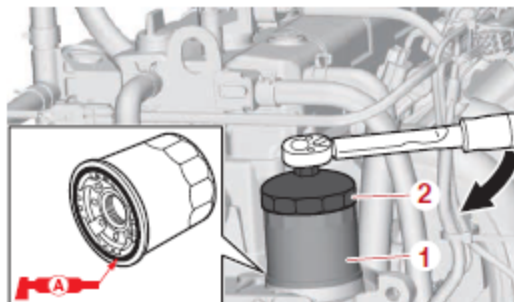
Make sure to clean up any oil spills.




| | |
|---|--------------------------------------|
|  | Oil filter wrench "2" 90890-01426 |
| | Oil filter wrench "2" YB-01426 |

e. Install:

- Oil filter "1"



| | |
|---|--------------------------------------|
|  | Oil filter wrench "2" 90890-01426 |
| | Oil filter wrench "2" YB-01426 |

| | |
|---|--|
|  | Oil filter "1" 17 N·m (1.7 kgf·m, 13 lb·ft) |
|---|--|

f. Fill:

- Engine oil
See step 2 in "Engine oil replacement" (3-5).

g. Check:

- Engine oil level
"Engine oil replacement" (3-5)