

Oil and Filters

Checking the Hydraulic Fluid Level

⚠ WARNING

Fluid Under Pressure

Fine jets of fluid at high pressure can penetrate the skin. Keep face and hands well clear of fluid under pressure and wear protective glasses and gloves. Hold a piece of cardboard close to suspected leaks and then inspect the cardboard for signs of fluid. If fluid penetrates your skin, get medical help immediately.

INT-3-1-10_3

Machines with External Sight Gauge

⇒ [Fig 1. \(□ 3-16-2\)](#), ⇒ [Fig 2. \(□ 3-16-2\)](#) and ⇒ [Fig 3. \(□ 3-16-3\)](#)

- 1 Park the machine and make it safe. Obey the care and safety procedures. ⇒ [Related Topics \(□ 3-16-1\)](#)

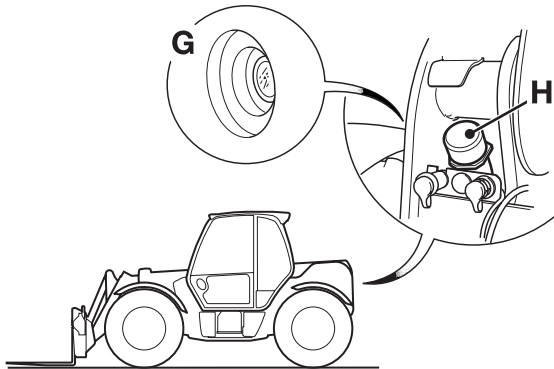


Fig 1.

A710870-1

⚠ CAUTION

Allow the hydraulic fluid temperature to cool before removing the hydraulic tank filler cap. Open the cap slowly to prevent oil being forced out of the filler neck.

5-3-4-8

⚠ CAUTION

Do not run the engine with the hydraulic tank filler cap removed.

5-3-4-1

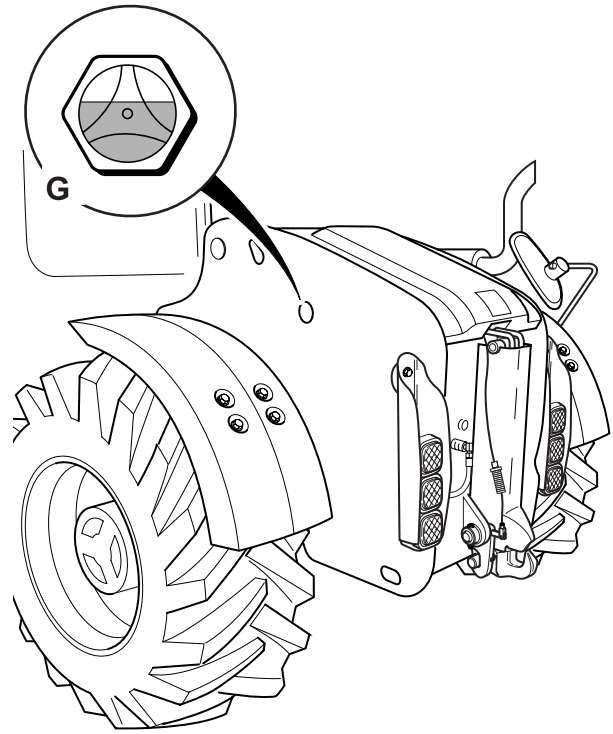


Fig 2. 526-56 Machines

T014620-C1

⚠ CAUTION

If the fluid is cloudy, then water or air has contaminated the system. This could damage the hydraulic pump. Contact your JCB Distributor immediately.

12-5-1-4

- 2 The fluid should be visible in the sight gauge G. If necessary, add recommended fluid through the filler H. ⇒ [Fluids, Lubricants and Capacities \(□ 3-4-1\)](#).

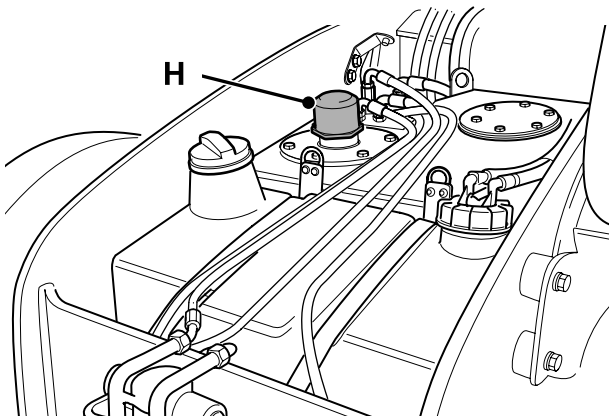


Fig 3. 526-56 Machines

T014670-4-C1

Machines without External Sight Gauge

- 1 Park the machine and make it safe. Obey the care and safety procedures. → [Related Topics \(□ 3-16-1\)](#)

CAUTION

If the fluid is cloudy, then water or air has contaminated the system. This could damage the hydraulic pump. Contact your JCB Distributor immediately.

12-5-1-4

- 2 Open rear cover **B**, use key **A** to unlock and pull open carefully to avoid damage. The fluid level should be visible in sight gauge **J**.

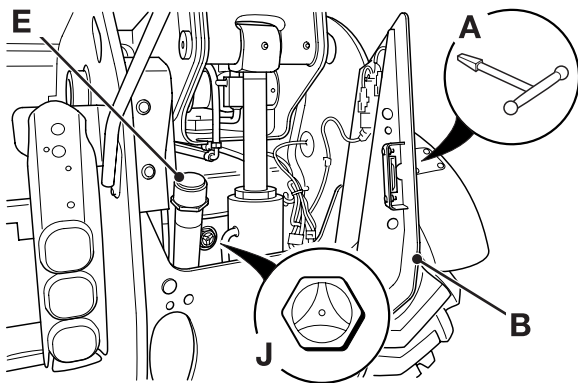


Fig 4.

732370-B1

CAUTION

Allow the hydraulic fluid temperature to cool before removing the hydraulic tank filler cap. Open the cap slowly to prevent oil being forced out of the filler neck.

5-3-4-8

CAUTION

Do not run the engine with the hydraulic tank filler cap removed.

5-3-4-1

If no sight gauge is fitted, Slowly remove filler cap **E** to allow the system to vent fully and prevent oil being forced out of the filler neck. The fluid level should be between the two marks on dipstick **F**.

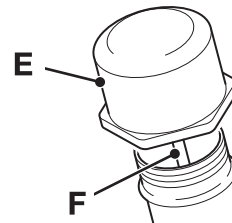


Fig 5.

732380-1

If necessary, add recommended fluid through the filler **E**. → [Fluids, Lubricants and Capacities \(□ 3-4-1\)](#).

- 3 Refit filler cap **E**, close rear cover **B** and secure with key **A**.

Changing the Filter Element

There are different types of filters, depending on the machine variant. The machine can have more than one hydraulic filter. Carry out the procedures applicable to your machine.

CAUTION

Ensure that dirt etc. does not enter the hydraulic system during this job.

5-3-4-4

Oil Filter (Canister Type)

The canister filter **A** is mounted under the chassis. It is located to the rear of the front axle.

Note: On 535-125 HiViz and 535-140 HiViz machines, the canister filter **A** is located to the front of the rear axle.

Some machines have an additional canister filter **B**. The additional filter is located behind the cab.

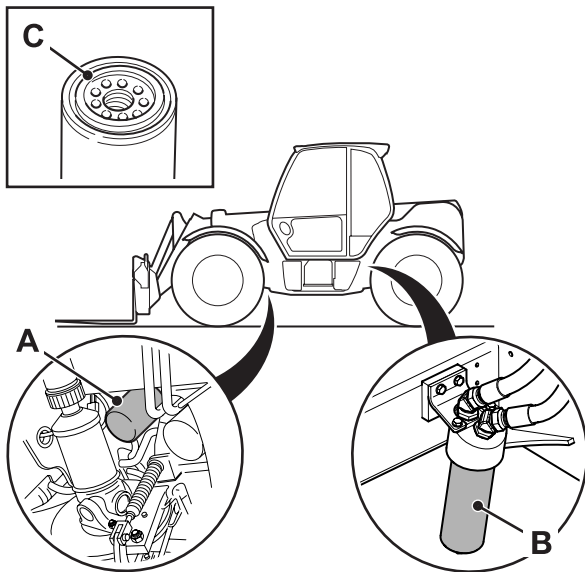


Fig 6.

T000890-2

WARNING

You will be working close into the machine for these jobs. Lower the attachments if possible. Remove the starter key and disconnect the battery. This will prevent the engine being started. Make sure the park brake is engaged.

Block all four wheels before getting under the machine.

2-3-2-1

- 1 Park the machine and make it safe. Obey the care and safety procedures. → [Related Topics \(□ 3-16-1\)](#)
- 2 Operate the controls and remove the tank cap to vent residual pressure.
- 3 Clean the area around the filter body.
- 4 Place a container of suitable size beneath the machine to catch the oil.
- 5 From under the machine, unscrew and remove the element. The element will contain hydraulic fluid; keep your face clear of spilling fluid.

CAUTION

When the strainer is removed, oil will gush out. Keep to one side when you remove the strainer.

2-3-4-1

- 6 Fit the new element:
 - a Clean the mating faces on the new element and filter holder.
 - b Smear the seal **C** with hydraulic fluid.
 - c Screw the new element in place, hand-tight only.
- 7 Add hydraulic fluid. → [Checking the Hydraulic Fluid Level \(□ 3-16-2\)](#).

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INT-3-1-10_3

- 8** Check for leaks:
 - a** Make sure the filler cap is replaced, then run the engine for a few minutes.
 - b** Make the machine safe.
 - c** Check for leaks at the filter.