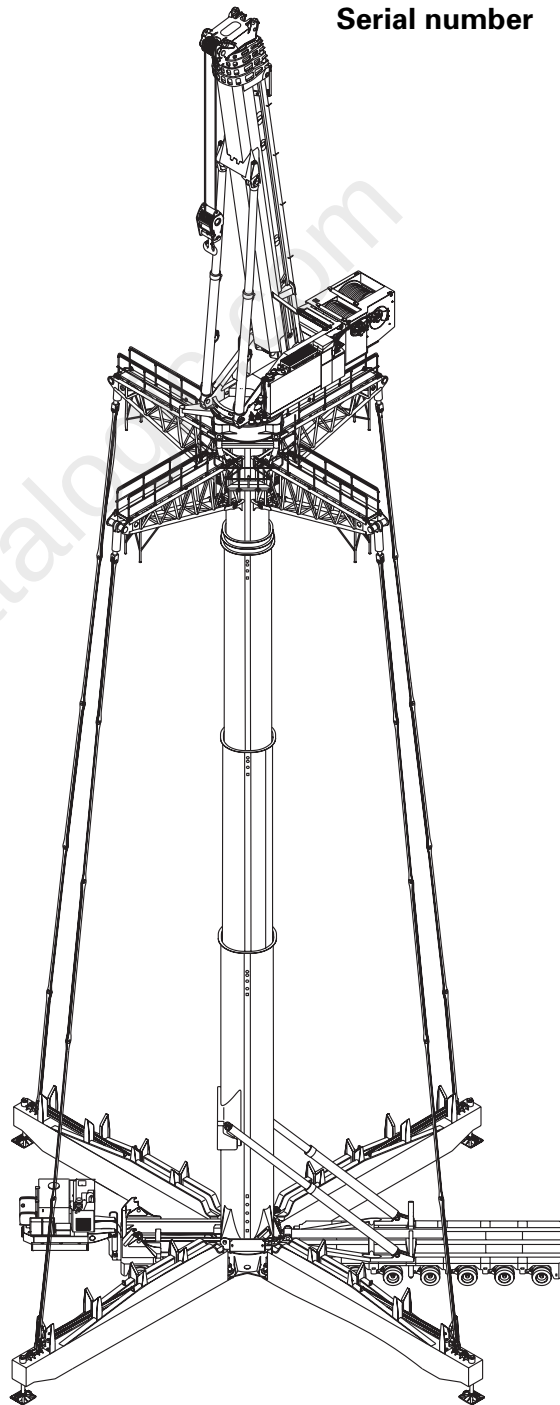


GROVE **GTK 1100**

Maintenance manual

Serial number



3 112 628 en

24.09.2009

Grove

Manitowoc

National Crane

Potain

Manitowoc
Crane Care

If due to exceptional circumstances, the crane must be put into operation for certain types of maintenance work, great care must be taken where there are moving parts (superstructure, tower, outriggers, slewing bearing, engines). There is a **risk of injury**.

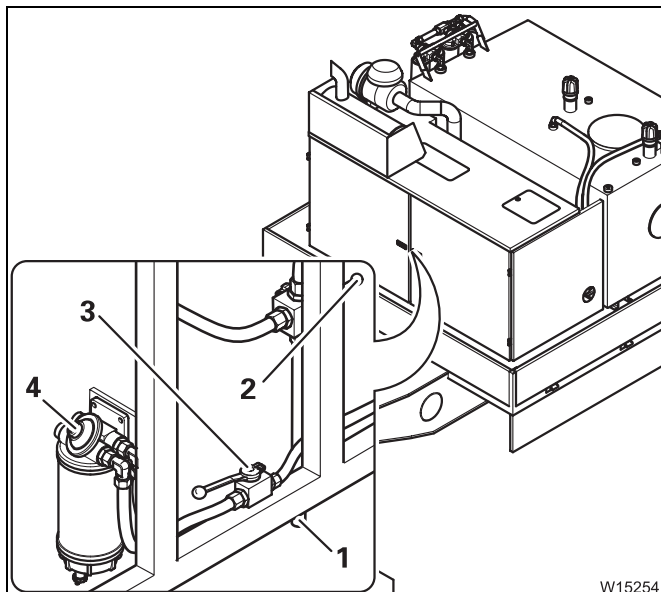
- Bring hydraulic components to their starting position or block them before beginning maintenance work.

Escaping hydraulic fluid or compressed air can cause severe injury.

Remember that the hydraulic and compressed air systems of the crane are pressurised even when the crane is not in operation. Only tighten loose screw connections when the systems are depressurised. Always depressurise the hydraulic and compressed air systems before opening them.

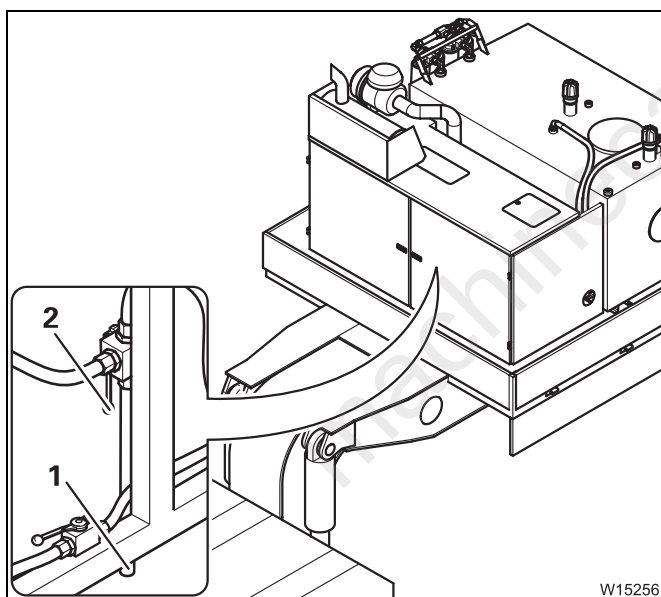
- Do not allow hot fluids to escape in an uncontrolled manner. Risk of scalding.
- Observe the applicable safety regulations when working with flammable fluids.
- Observe the applicable safety regulations when working with process materials.
- Switch off all electrical consumers and disconnect the earthing terminal before removing any batteries.
- Keep in mind the corroding effect of battery acid.
- Note the fire alarm and fire-fighting facilities on the site.
- Return the crane to proper working order once maintenance work is completed. Inform the crane operator accordingly.

Bleeding the fuel line



There is a receptacle under the hose end (1).
The lever (2) is horizontal.

- Open the valve – lever (3) parallel with the line.
- Actuate the pump (4) until the fluid flowing through the end of the hose no longer contains any bubbles (1).



- Turn the valve – lever (2) vertically downwards.
- Start the engine and check that the fuel filters are not leaking.
- Remove the receptacle underneath the hose end (1).

7.10.9

Taking oil samples

M 12

Two oil circuits

The carrier has two separate oil tanks with two separate oil circuits;
▮▮▮▮► *Hydraulic system*, p. 7 - 39.

Oil tank 1 – oil circuit 1

Oil tank 2 – oil circuit 2

Reducing the interval

- Under difficult operating conditions – at tropical or very hot locations – you must halve the oil change interval.

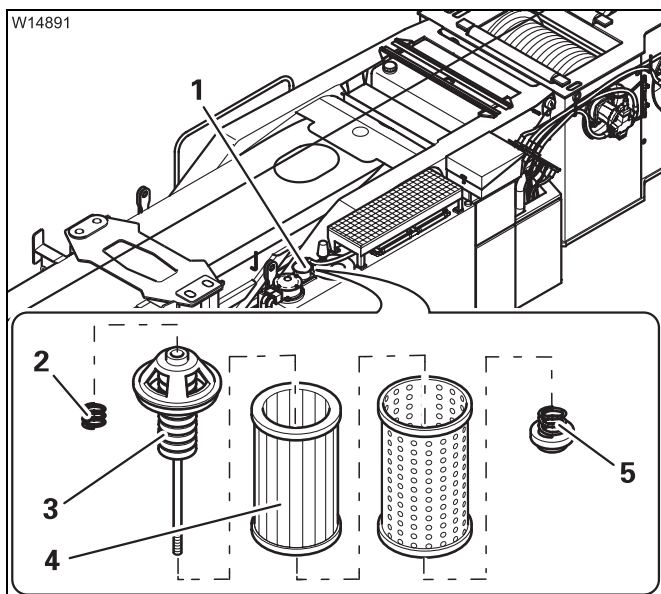
Spare parts and tools

- Connecting piece and hose (toolbox).
- Four sample containers (0.3 litres each).
- Receptacle, approx. 5 litres; ▮▮▮▮► p. 2 - 4.

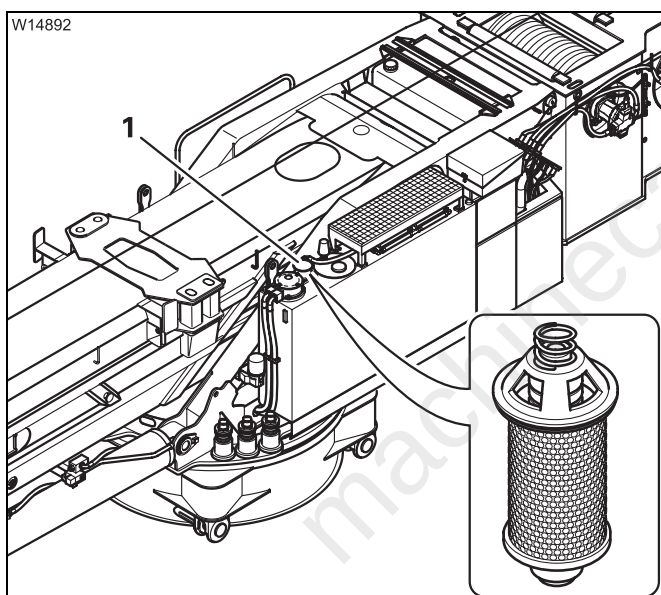
Prerequisites

- The engine is not running and is secured against unauthorised use;
▮▮▮▮► p. 2 - 3.

Changing oil filter 2



- Loosen the cap (1) and pull out the filter.
- Place the filter in a receptacle.
- Remove the spring (2).
- Loosen the nut (5).
- Take the magnetic rod (3) out of the filter (4) and clean the magnetic rod.
- Change the filter (4).
- Replace any damaged parts.



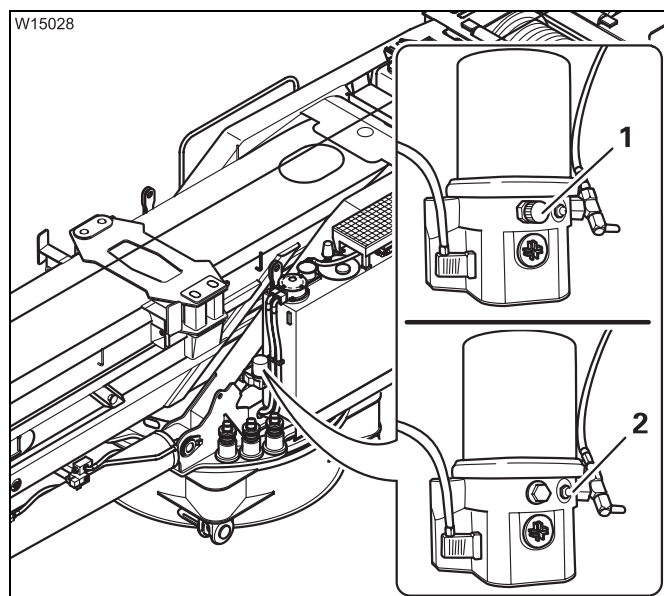
- Assemble the filter and insert it.
- Replace the cap gasket.
- Fasten the cap (1).

Topping up



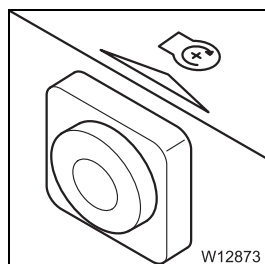
Risk of damage to the central lubrication system

Cleanliness is of the utmost importance when handling grease and filling pumps. Do not remove the caps from the hole and filling pump until immediately before refilling the grease. This prevents dirt particles from getting into the grease and damaging the central lubrication system.

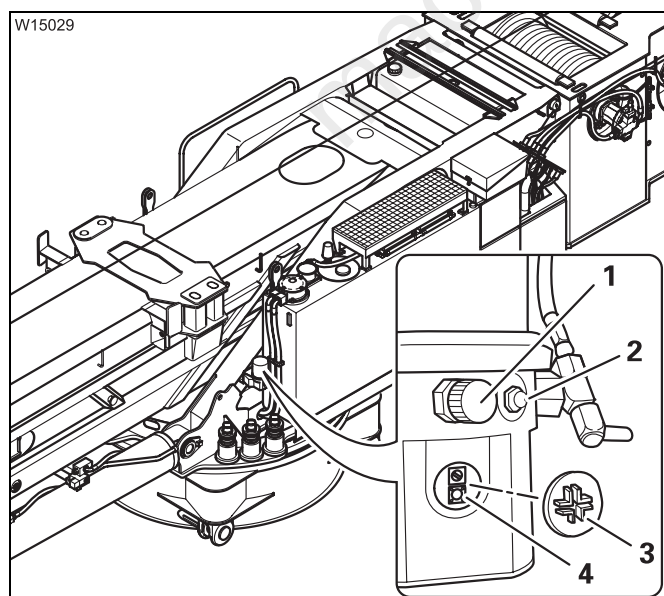


Fill the grease container as follows:

- 1 Filling pump tool set
You must install the connector from the tool box.
- 2 Filling pumps for lubrication nipples



- Start the engine – using the remote control.



- Remove the cap (3).
- Attach the filling pump to connection (1) or (2).
- Press the button (4) for approx. 2 seconds once.
Intermediate lubrication is triggered.
- Fill the grease container up to the **max.** marking.
- Remove the filling pump, wipe away any excess grease and close the holes.

10.3 Frame and crosshead

10.3.1 Lubricate the sheaves on the frame

M 3

Grease, spare parts,
tools

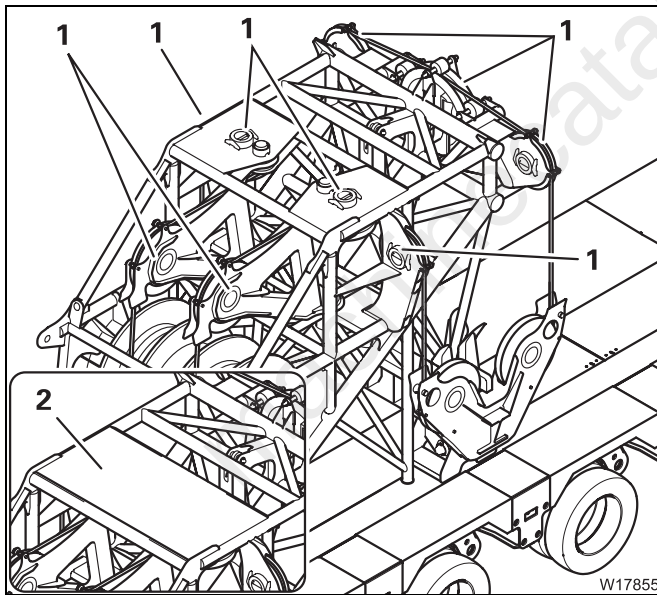
Lubricating grease	Designation according to DIN 51502	Specification classification	GROVE part no.
Grease	KP - L2K	DIN 51825	00554201

- Grease gun from the tool set.

Prerequisites

- The MEGA LIFT 1500 is sitting on a trailer and is properly secured for transport;  Select a suitable rigging mode for the maintenance, p. 10 - 1.

Lubricating



- Remove the cover (2).
- Clean the lubricating nipple (1) and lubricate the sheaves at the lubricating nipple.
- Remove any excess grease.
- Fasten the cover (2).

Full Version Available

Grove GTK 1100 Tower Crane Maintenance Manual

Grove GTK 1100 tower crane maintenance manual covering intervals, lubrication, consumables and torques. 368-page English PDF. Instant PDF download.

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