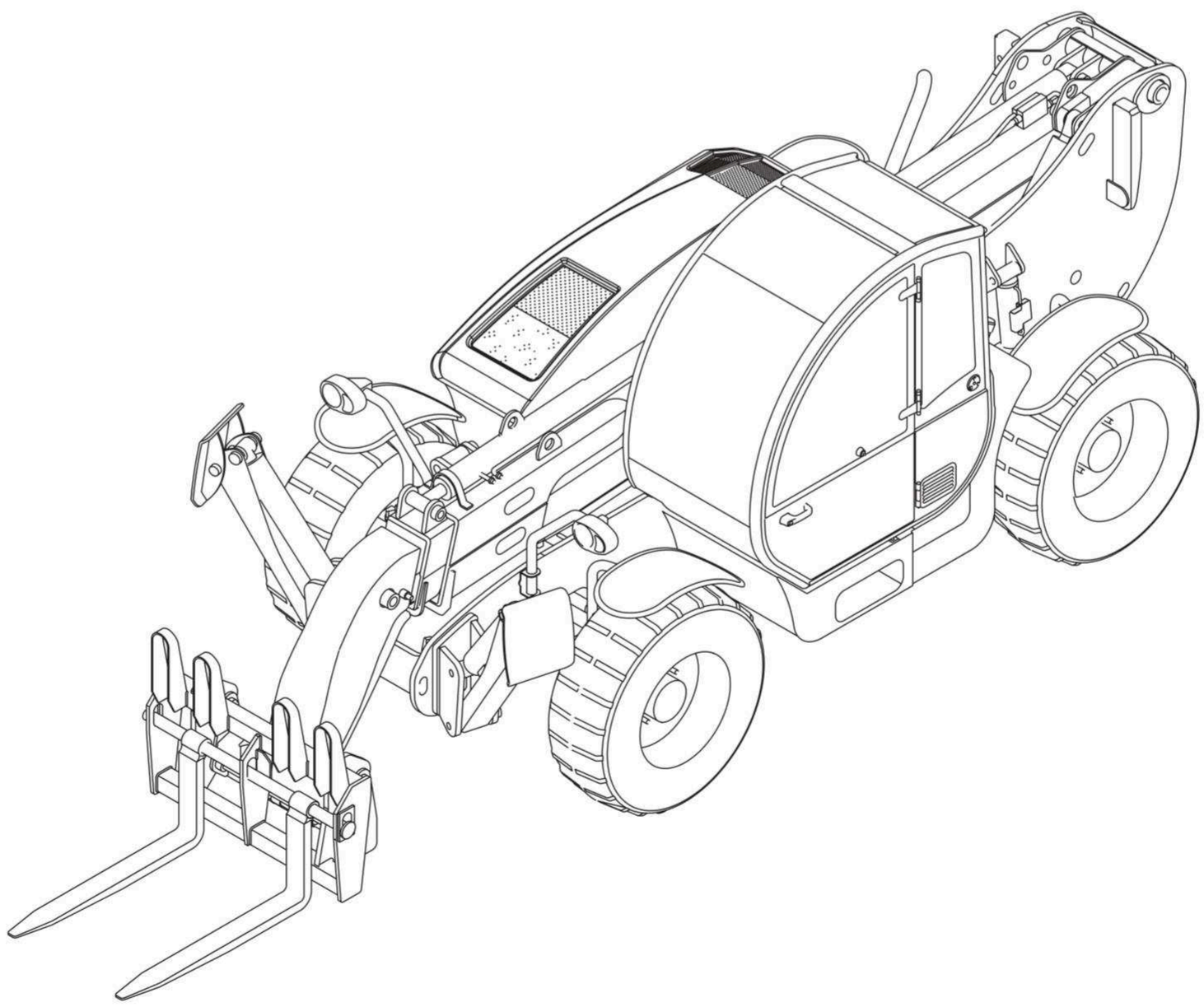
TEREX®

WORKSHOP MANUAL

Code 57.4401.1200 - 2nd Edition 01/2007

Handler with telescopic boom

Telelift 4013 *(From serial n. 13308)*



English

Edition

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Section 1
SAFETY INFORMATION

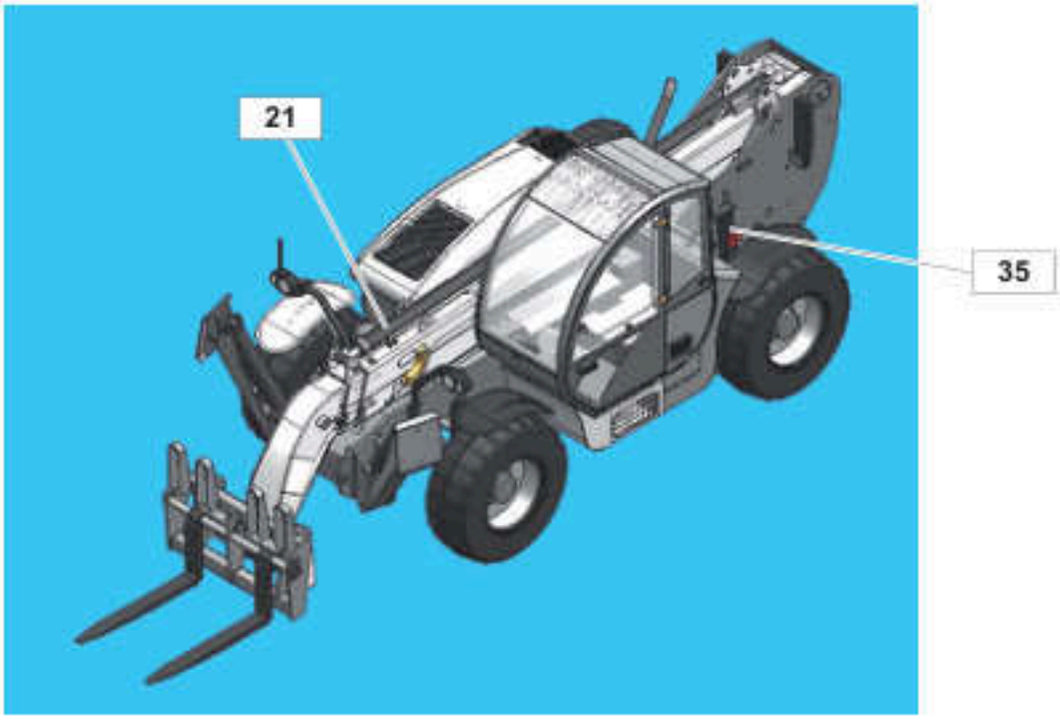
SECTION INDEX

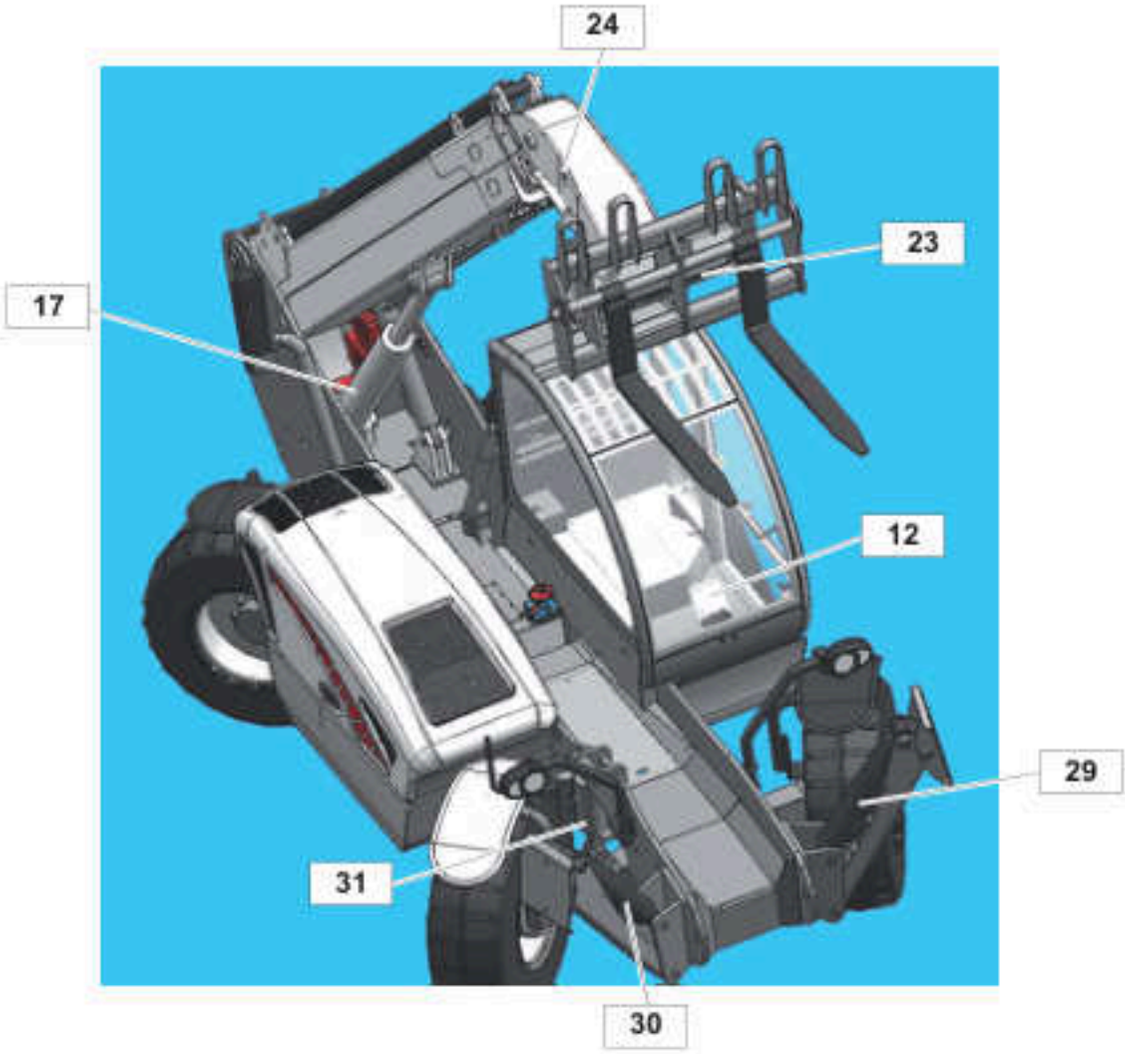
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When the two solenoid valves are de-energised, the circular and annular chambers of the cylinder are closed toward the outside and the cylinder behaves like a strut/tie-rod blocking in this way the rear axle.
This happens when the inclination of the telescopic boom exceeds a certain pre-set value (58° for Telelift 4013) and the side stability of the machine must be improved.
When, on the contrary, the boom inclination is below such pre-set value, the two solenoids of the solenoid valves are energised thus letting the oil circulating freely from/to the two chambers of the cylinder.
In this way, the axle can oscillate, thus making the machine drive more comfortable even in case of rough terrains.
The chambers of the cylinder are always kept filled with oil by a single hydraulic line connected to the housing of the drive pump **(2)**.
This allows to have a minimum pressure capable of keeping the circuit of the rear axle block cylinder full of oil but incapable of producing overloads on the same axle.
When the machine is equipped with man-platform, a battery-powered emergency pump **(36)** is installed to be used in an emergency when the main circuit of the telescopic boom is faulty.
To work correctly, this circuit uses one-way valves **(37)** with different opening pressures.

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C-15 CHECK THE EFFICIENCY OF THE BLOCK VALVES

The piloted blocking valves allow to held the load in position in case of burst of a flexible hose.

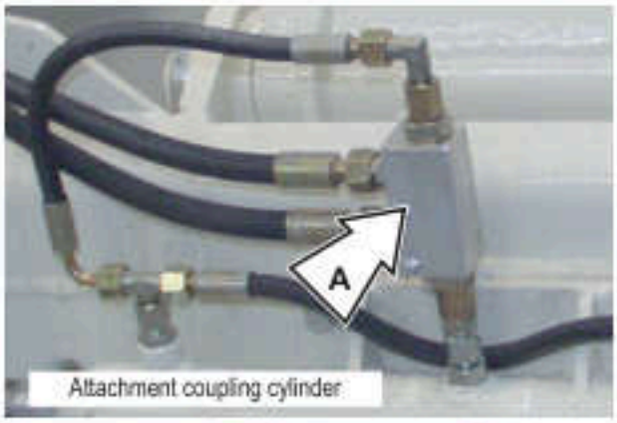
To check the efficiency of a valve, proceed as follows:

- Load a weight near the maximum payload (3500 kg roughly) onto the boom.
- Raise the load some centimetres above the ground (max 10 cm). To check the valve on the telescope extension cylinder move the boom to maximum height and extend it some centimetres.
- Loosen the oil hoses to the cylinder of which you are checking the valve with caution.
- To check the efficiency of the block valves of the outriggers, lower them to the ground and unload the weight of the tyres without raising them. Loosen the cylinder hoses to check the efficiency of the valve.

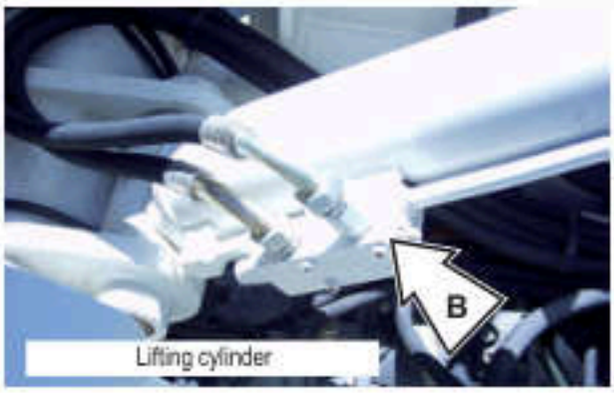
During the check, the oil will flow out of the hoses and the load shall remain blocked in position.
Should that not be the case, the valve must be replaced. Contact TEREXLIFT Technical Service.

NOTICE

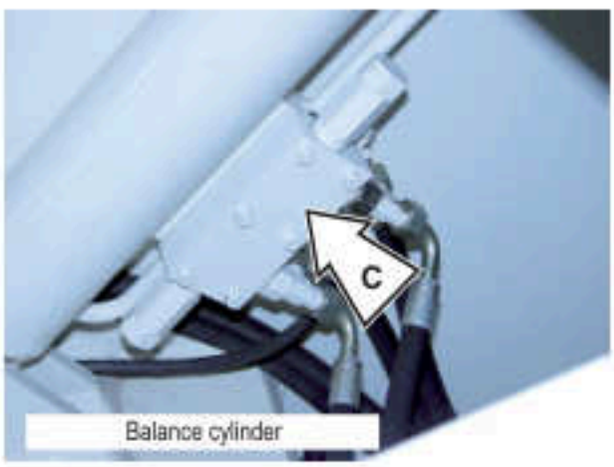
Place a container of suitable size under the hoses.



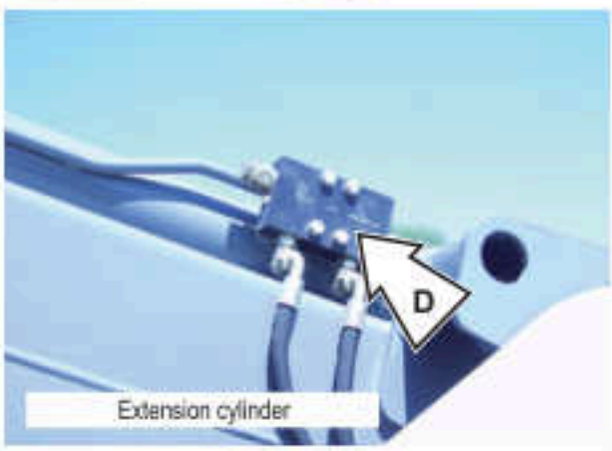
Attachment coupling cylinder



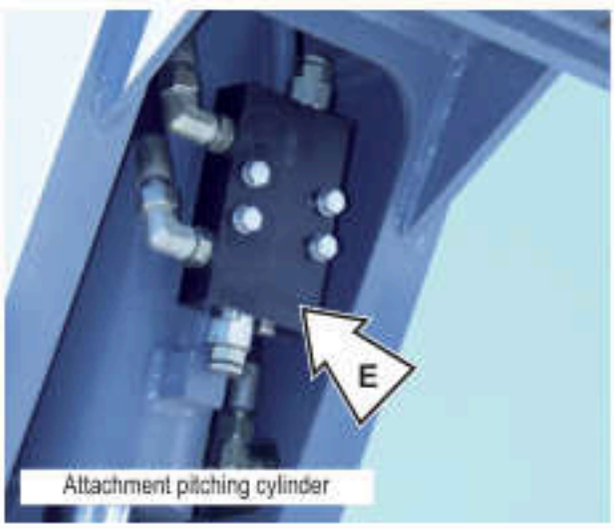
Lifting cylinder



Balance cylinder



Extension cylinder

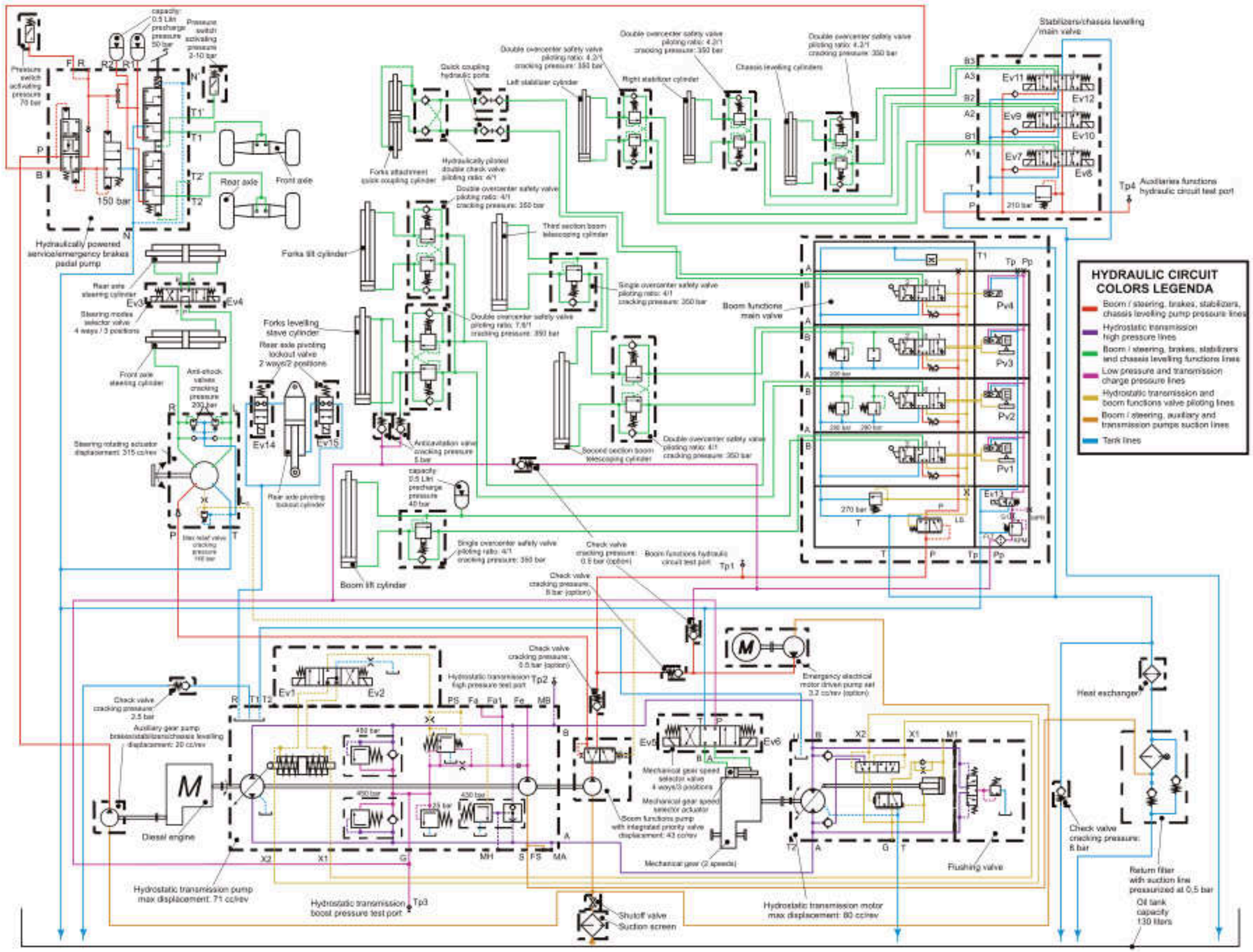


Attachment pitching cylinder

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6.2 HYDRAULIC SCHEMES

6.2.1 Telelift 4013



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