

## 5. Hydraulic operation and maintenance

This chapter describes the hydraulic system of the truck. The chapter is divided into two main sections. The first section, Hydraulic operation, presents the hydraulic operation of the truck. The second section, Hydraulic maintenance, provides information on maintenance and repair procedures not covered in Chapter 3 Regular maintenance.

Refer to Section 3.1 Safety guidelines and preparation and Section 3.2 Maintenance guidelines for information on safety and preparation for maintenance tasks. Refer to Chapter 2 Operating the truck for operating instructions.

### 5.1. Hydraulic operation

This section presents the hydraulic operation of the truck. Please ensure that you have the appropriate version of the hydraulic schematics for the truck model under maintenance. Contact your supplier or technical support for information on obtaining up-to-date documentation for your truck model.

The hydraulic schematic diagram illustrates the operation of the hydraulic system. In the following procedures, different parts of the hydraulic system are numbered. These numbers refer to the figure below.

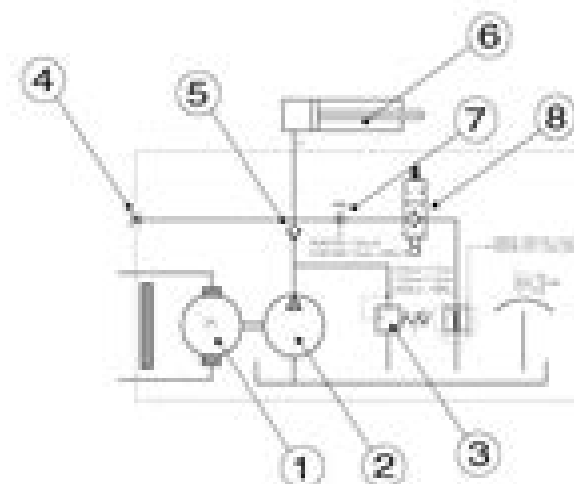


Figure 5.1 Hydraulic system (D450 1104)

The principle of the hydraulic operation of the truck is as follows:

#### Lifting

1. The electrical motor (1) operates the hydraulic gear pump (2).
2. The hydraulic fluid is pressurised.
3. The fluid pressure is maintained using a relief valve (3), which opens at a certain pressure. In such cases, hydraulic fluid is returned to the fluid tank. The opening pressure of the relief valve is indicated in the hydraulic schematics.
4. The pressurised hydraulic fluid flows through the no-return valve (5) to the lifting cylinder (6).
5. The lifting cylinder piston lifts the forks.

# Pbp16m Manual

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