Description of Hydraulic system, see schematics 6,40,20

1. Hydraulic tank and oil filter

The hydraulic tank 1 contains the hydraulic oil for the complete hydraulic system.

The hydraulic tank and the fuel tank make up a single component, which is installed on the right side of the excavator.

Baffle plates inside the tank prevent hydraulic oil turbulence during machine operation and separate the tank into three different section:

- The return oil side A, where all return and leak oil is collected.
- The filter chamber B, where the oil enters after flowing through the return filter 4, which consists of a magnetic and paper filter.

During cold start, or if the filter element is contaminated, the oil can return via the bypass valve 5. which is integrated in the filter.

 The suction side, from where the filtered oil is drawn through the shut off valve 3.

The suction side C is connected with the chamber B via an opening in the lower baffle plate D.

After 1,5 bar pressure has been reached, the safety valve 2 allows air to escape from the closed hydraulic system.

For tank 1 and filter 4 maintenance, refer to the maintenance guidelines and the Operation and Maintenance Manual.

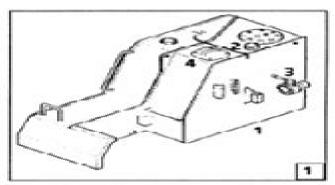
2. Variable Displacement Double Pump 20

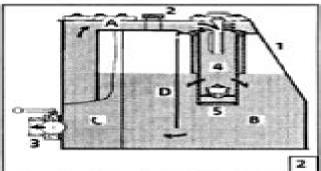
Hydraulic pumps convert mechanical energy into hydraulic energy.

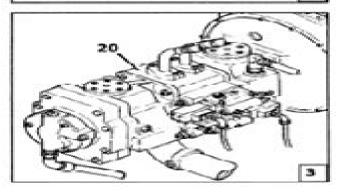
The pump unit, designed as a double pump in axial piston swash plate design, driven by the Diesel engine, is installed on the flywheel housing.

The pump volume, in proportion to the input RPM and the pump angle, is regulated hydraulically by the electronic horsepower control which senses the Diesel engine speed via an inductive transmitter.

if the engine speed is reduced, the pump flow is reduced, which supplies the regulating valves on the pump unit.







#### LIEBHERR

Distance Malmon Date

Bennenung-Description/Denomination

Hydraulic System Description-Construction Type Model Type

see page 6.

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# <u>Liebherr A900 A902 A912 A922 A932 Excavator Service</u> <u>Manual</u>

**Lei Huang** 

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