

Inspect manual bleed valve

Does this solve the problem?

- 1] Yes
- 2] No
- 3] I don't know

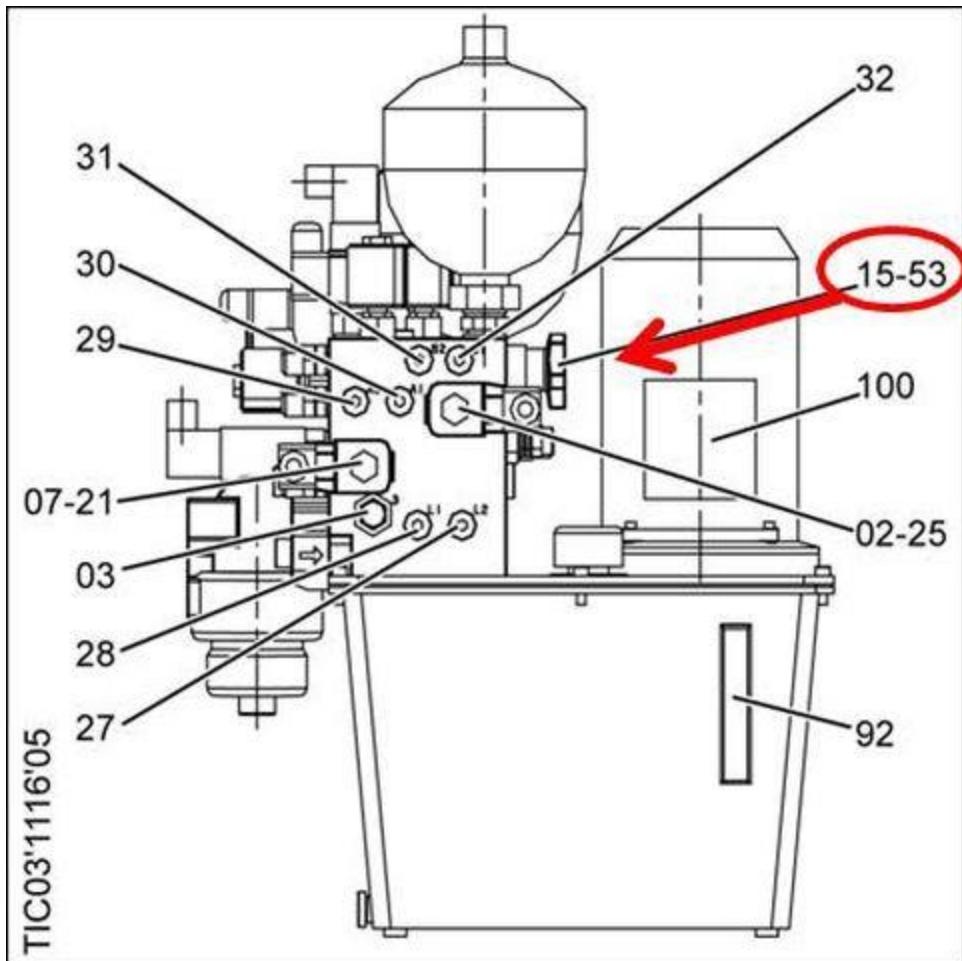
- **Explanation**

Check that needle valve (POS. 15) is closed and not damaged. If open, close. If damaged, replace.

Relevant spare parts

Description	Item No.
(Combi. Hydraulics)- Needle Valve TOGNELLA FT 267/1	60065410
(Parker Yaw Hydraulics) - Needle valve NVH-2201	60104032

(Combi. Hydraulics)- Needle Valve TOGNELLA FT 267/1



(Parker Yaw Hydraulics) - Needle valve NVH-2201



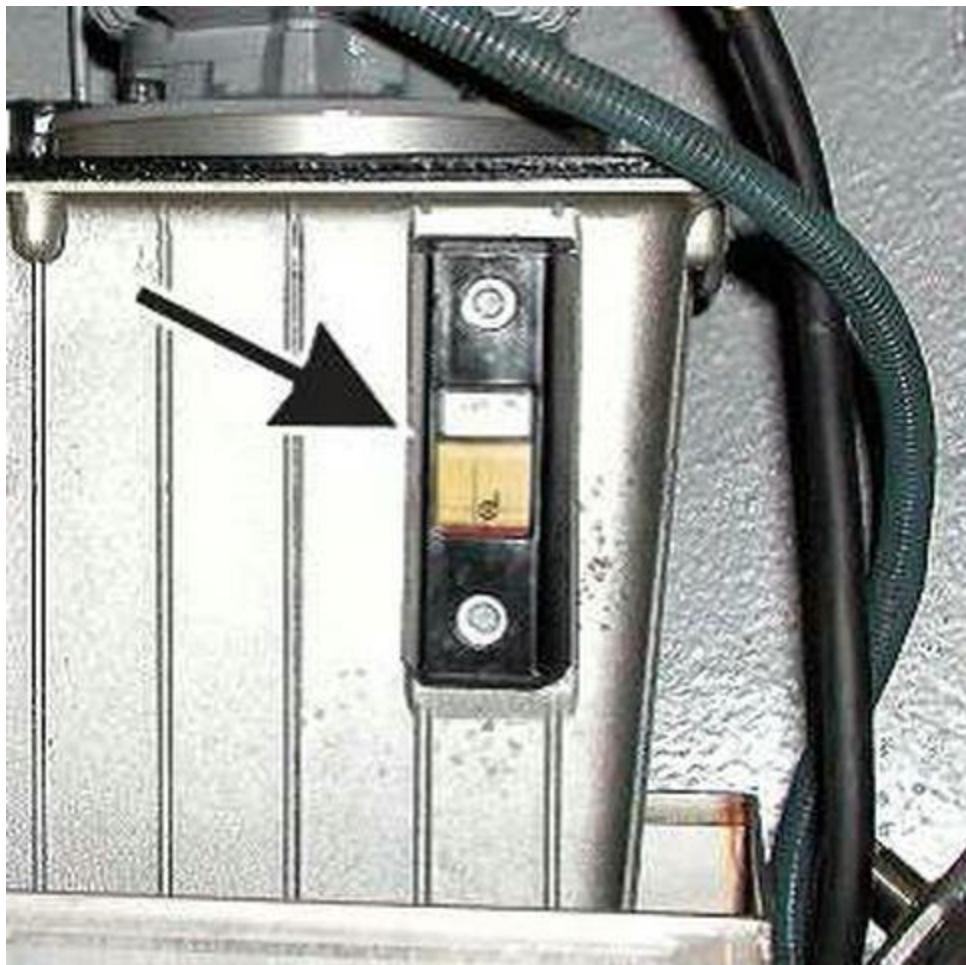
Check level and replenish system if necessary

Does this solve the problem?

- 1] Yes
- 2] No
- 3] I don't know

• **Explanation**

Check oil level (with system pressurized and brake applied oil should be visible in oil window).



Adjust relief valve

Does this solve the problem?

- 1] Yes
- 2] No
- 3] I don't know

- **Explanation**

Check that relief valve settings are correct in accordance with the I&S Data.

Pre-charge the accumulator

Does this solve the problem?

- 1] Yes
- 2] No
- 3] I don't know

- **Explanation**

Check pre-charge of accumulator.

Reference Doc. DMS [941918](#) "Charging of Nitrogen Accumulators" for instructions.

Reference the following service instructions depending on which type the turbine is equipped with:

Relevant documentation	
Description	DMS No.
Combi Hydraulics	1001076
Parker yaw hydraulics	1001388
Charging of Nitrogen Accumulators	941918

Identify leak and repair

Does this solve the problem?

- 1] Yes
- 2] No
- 3] I don't know

- **Explanation**

Check for external leakage at brake calipers, hose connections & hyd. power unit (if leakage is from caliper seals, replace seals. Check condition of pistons and replace if you see abnormal wear.

Relevant documentation	
Description	DMS No.
Replacing yaw brake pistons and gaskets	1001480

Relevant spare parts	
Description	Item No.
Gasket Set, FCHR90A-GF-B-828 (1 per half caliper)	60107597
Piston FCHR 90GF (2 per half caliper)	60113057

Gasket Set (1 per half caliper)



Piston (2 per half caliper)



Oil seal/ O-ring damage in return hydraulic hose:



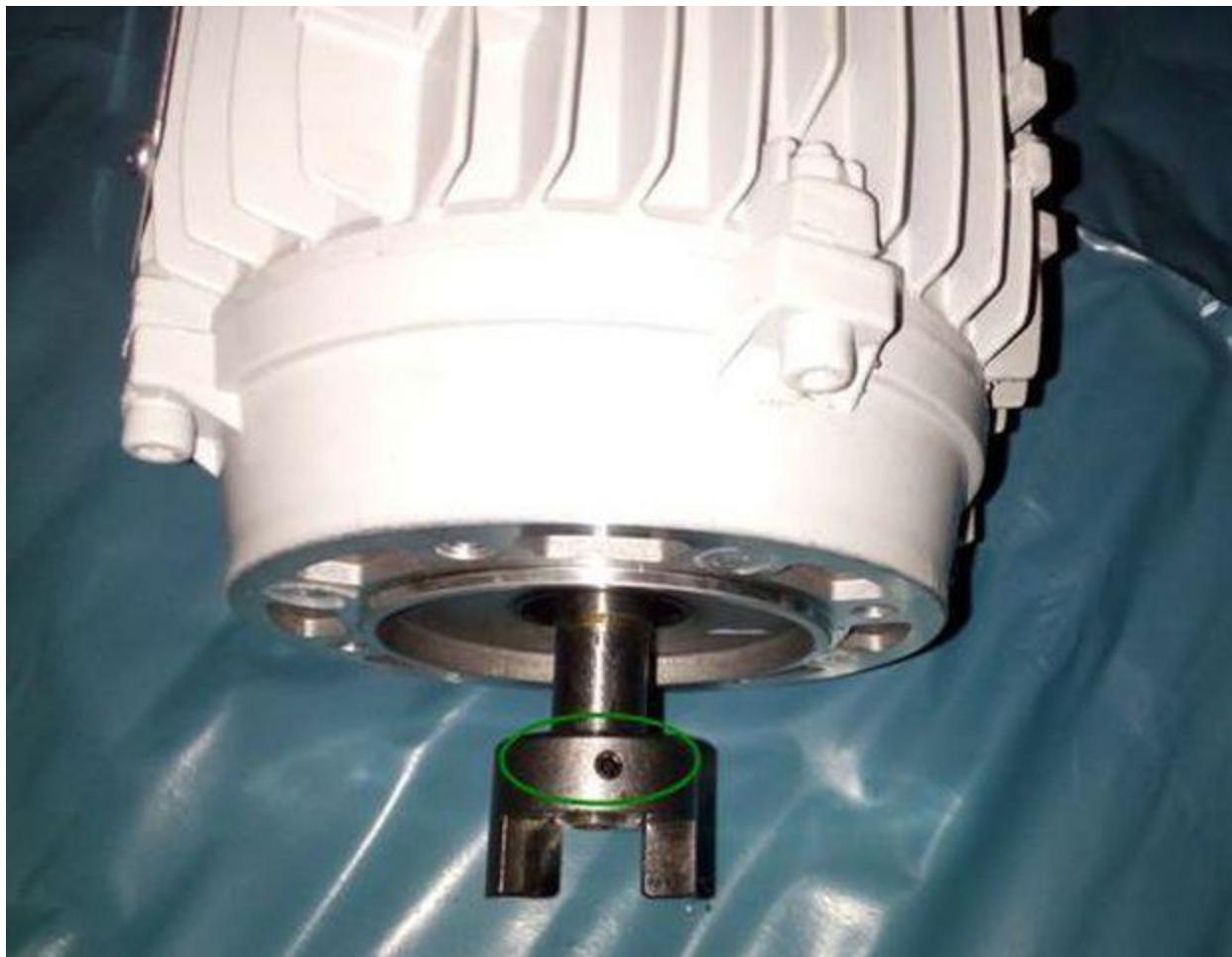
Check and realign the motor- Pump side flange

Does this solve the problem?

- 1] Yes
- 2] No
- 3] I don't know

• **Explanation**

Check the motor-pump coupling for proper functioning, if the pressure is not developing while the pump is running. Then dismantle and check for proper engagement of Pump-Motor coupling assembly. In few instances, 2mm Allen screw which holding the flange with the motor shaft key way has loosen and leading to run the pump freely. If pump runs freely, then align the flange by tighten Allen screw as shown below pictures;







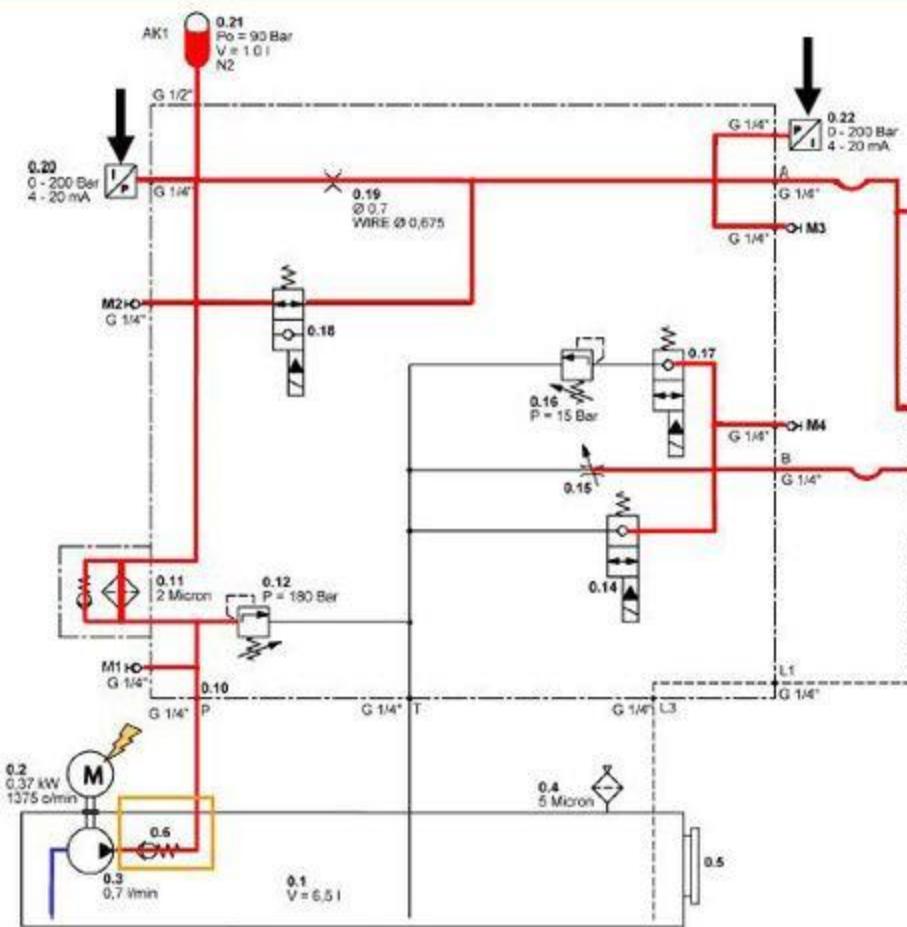
Clean/Replace the defective valve

Does this solve the problem?

- 1] Yes
- 2] No
- 3] I don't know

• **Explanation**

Check and replace the Check valve Pos 06 which is inside the Hydraulic tank, if system pressure drops suddenly.





Check and replace the position 014,0.17 7 0.18 valves



Relevant spare parts		
Description	Item No.	Position
VALVE CHECK RHZ08ZLREDCF V82	60104016	06
DIRECT VALVE N.C. 2/2 DSL-08-1	60104031	0.14 & 0.17
VLV DIRECT NO 2/2 DSL-08-1-CR	60104034	0.18

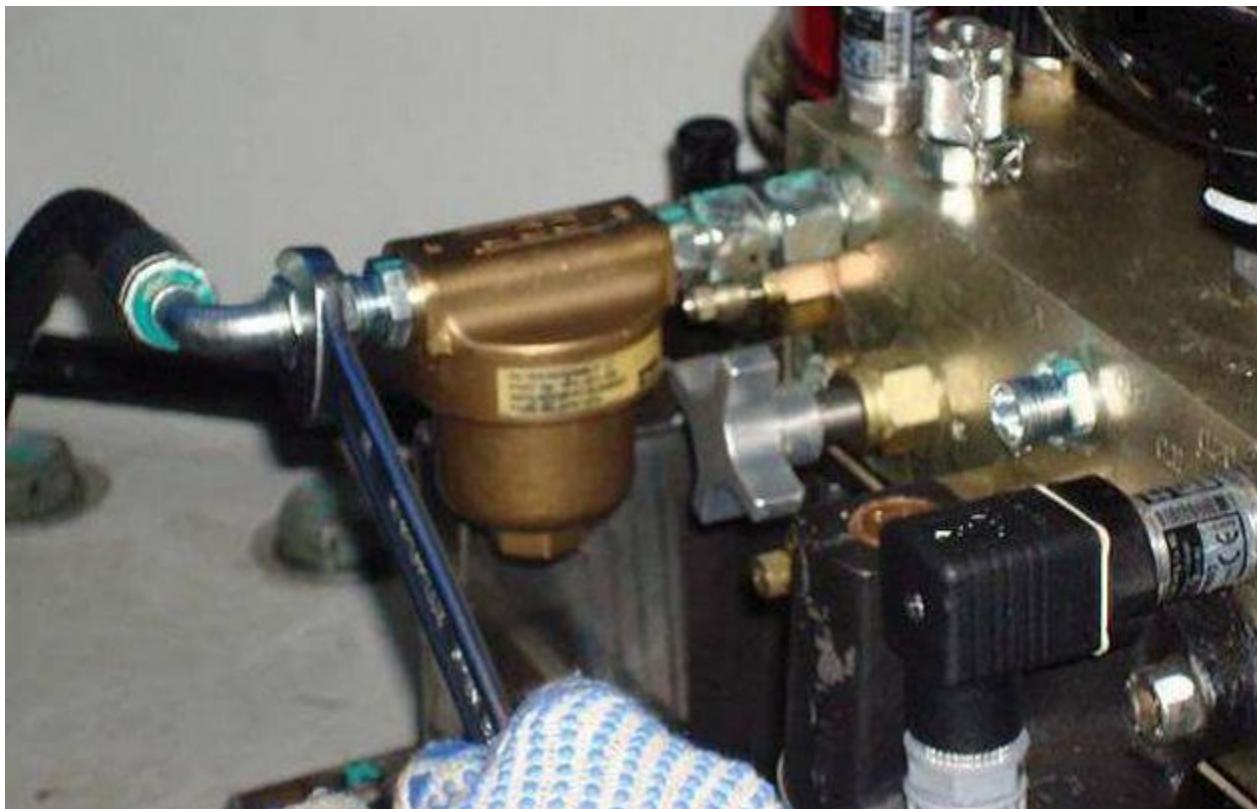
Replace hydraulic oil in system

Does this solve the problem?

- 1] Yes
- 2] No
- 3] I don't know

● **Explanation**

1. Drain and clean the hydraulic reservoir.
2. Remove return pressure hose at the small 25 mU filter.



3. Fill reservoir and pump oil through yaw brake callipers until clean oil is observed being pumped into a waste container from return hose.

4. Replace filters and check fluid level.

5. Replace any leaking valves.

Relevant documentation	
Description	DMS No.
Flushing the Yaw Brake Callipers	0034-5670

Install upgraded coils and pump

Does this solve the problem?

1] Yes

2] No

3] I don't know

- **Explanation**

For Evo II turbines with Parker hydraulic units (e.g. mk.2 or higher):

Check if the hydraulic unit needs CIM1106 upgrade (replacement of coils and pump).

Relevant CIM case		
CIM case	Task list	SWI
1106		0002-2344



If new style pumps is installed check for internal seal failure.



Relevant spare parts	
Description	Item No.
Gear Pump P1 AAn 0050 FL 20-B0	60103470