

Check that the large accumulator on the hydraulic station works and has the correct pre-charge pressure

Does this solve the problem?

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

• **Explanation**

Check the pre-charge pressure on the 1 liter accumulator as per WKI 941918. Recharge the accumulator or replace as necessary.

If the system cannot maintain pressure without the hydraulic pump running, then the accumulator has most likely failed.

Charging of nitrogen accumulators Doc: [941918](#)

(PARKER):	
ACCUMULATOR ADE050-21R9A002 (32 bar)	60108210
ACCUMULATOR ADE100-21R9A003 (60 bar)	60108204

(AVN Combined):	
ACCUMULATOR INTE. D1.0-200 (45 bar)	60097871
ACCUMULATOR INTE. D1.0-200 (90 bar)	60097868

Check the Parameters

Does this solve the problem?

1] Yes

2] No

3] I don't know

- **Explanation**

Check the different from factory parameters and verify that the HSS brake related parameters are correct. Refer to the current parameter list for the correct values.

If turbine has combined hydraulics for yaw- and shaft- brake:

Check that combi hydraulic is enabled as per software release 090821.

Parameter list 50 Hz Doc: [17000193](#)

Parameter list 60 Hz Doc: [17000169](#)

Test the shaft brake valves, repair as needed

Does this solve the problem?

1] Yes

2] No

3] I don't know

- **Explanation**

Test the system as follows:

1. Make sure the shaft brake is released.
2. Go to Service menu- Manual test- test hydraulic system shaft brake.
3. Move the cursor to the line "Start test" and press Enter.
4. Now the release valve and the reduce valve will be tested and the results will be shown in the display. Repair any malfunctioning valves.

Note* If the alarm 376 occurs during this test the 40 bar accumulator is defective.

(PARKER):

DIRECT VALVE N.C. 2/2 DSL-08-1	60104031
VLV DIRECT NO 2/2 DSL-08-1-CR	60104034

(AVN Combined):	
VALVE SOLENOID NO OD1502181ISO	60095081
SOLENOID VAL NC OD150118310005	60095079

Check the system for leaks

Does this solve the problem?

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

- **Explanation**

Check the system for leaks.

Internal leaks will be evident by a slow pressure drop when the system should be stable, possibly making a hissing sound. An over tightened needle valve could cause a leak like this.

External leaks will be evident by fluid spills and low oil level in the tank. Check hoses and fittings

Spare parts:	
Item	Item No.
Hydraulic oil MOBIL SHC524 20l	60113673

(Parker) Needle valve NVH-2201	<u>60104032</u>
(AVN Combined) Needle Valve TOGNELLA FT 267/1	<u>60065410</u>