

Check the accumulators

Does this solve the problem?

1] Yes

2] No

3] I don't know

- **Explanation**

Check the nitrogen levels in the accumulators. If the precharge level is too low or if the accumulator bladder has ruptured, too much of the hydraulic pressure may be diverted away from the pitch ram.

Repair, service, or replace the accumulators as necessary. Vent the system and test run before returning it to run.

Relevant spare parts

Description	Item No.
Accumulator 24.5 L	60113097
Accu. Bladder kit 24.5 L	60113640

Relevant documentation

Description	DMS No.
WI V82 accumulator retrofit	0000-9402

Check valves 240 and 245 for leakage

Does this solve the problem?

1] Yes

2] No

3] I don't know

- **Explanation**

With the turbine in idle and the pitch system pressurized, measure the pressure at test port MT (Parker only). You

should not have more than 5.5 bar there. If you measure higher pressure there, check valve 245 for defect.

To test 240 for leakage, connect a manometer to test port MA and pitch the blade to run. If the pressure rises too much above 100 bar, try replacing valve 240.

Relevant spare parts	
Description	Item No.
Pilotoperated checkvalve pilot to close COFA-XAN	60096493

Check valves 215 for correct operation

Does this solve the problem?

1] Yes

2] No

3] I don't know

- **Explanation**
With the turbine in idle and the pitch system pressurized, verify the shutdown valve (215) is active and not leaking.
You should measure system pressure coming out of the 215 at test port MX1.
If the pressure is dropping, verify the 222 is closed and check the 220 for correct cracking pressure (about 250 bar).
If the shutdown valve is not active, check the circuit and ensure AK4:K01 has energized the appropriate output.

Relevant spare parts	
Description	Item No.
3/2 directional valve (Parker)	60111617
Needle valve	60096478
Pressure relief valve 250 bar	60096477

Part Number for Solenoid Valve

The part No.60096475 is phased out and henceforth replaced by 109795 & 60106201.

(Rexroth) Valve/Solenoid-

Relevant spare parts		
Description	Item No.	Status
SOL VAL KSDEU1CA/HCG24N0K4M	60096475	Phased out
ELECTRIC SEAT VALVE	109795	Available
COIL GZ37-4 24VDC 19W	60106201	Available



60106201



(Parker) 3/2 DIRECTIONAL VALVE

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Relevant spare parts	
Description	Item No.
3/2 DIRECTIONAL VALVE	60111617

Check the AK4 Powernets

Does this solve the problem?

1] Yes

2] No

3] I don't know

- Explanation**
Check the G400 and G401 for 24VDC output. Also verify that the power makes it to the K01:X4.

Replace any Powernet you find defective.

Relevant spare parts	
Description	Item No.
PS ADC 5483R-3 10A-27, 4 nm pin	188453

Replace the hub computer

Does this solve the problem?

1] Yes

2] No

3] I don't know

- **Explanation**

If the blade pitches as it should and no leakage is detected, the error might be generated by an internal defect in the hub computer.

Verify the terminal connectors on the hub computer are seated correctly and free of corrosion.

Try replacing the hub computer then calibrate the blades and test run the turbine. An extended test run of 24 hours may be required to assert the hub computer was the root cause of the error.

Relevant spare parts	
Description	Item No.
SIF HUB Computer cabinet EVO I	51702601
SIF HUB Computer cabinet ECO II	51701801

Check the pitch ram/manifold for leakage

Does this solve the problem?

1] Yes

2] No

3] I don't know

- **Explanation**

Check the pitch cylinder and manifold for internal or external leaks.

If there is an external leak in the hub, it may be necessary to clean everything in the hub and test run for a short period of time in order to locate the source of the leak.

Repair any leaks found.