Reset the counters

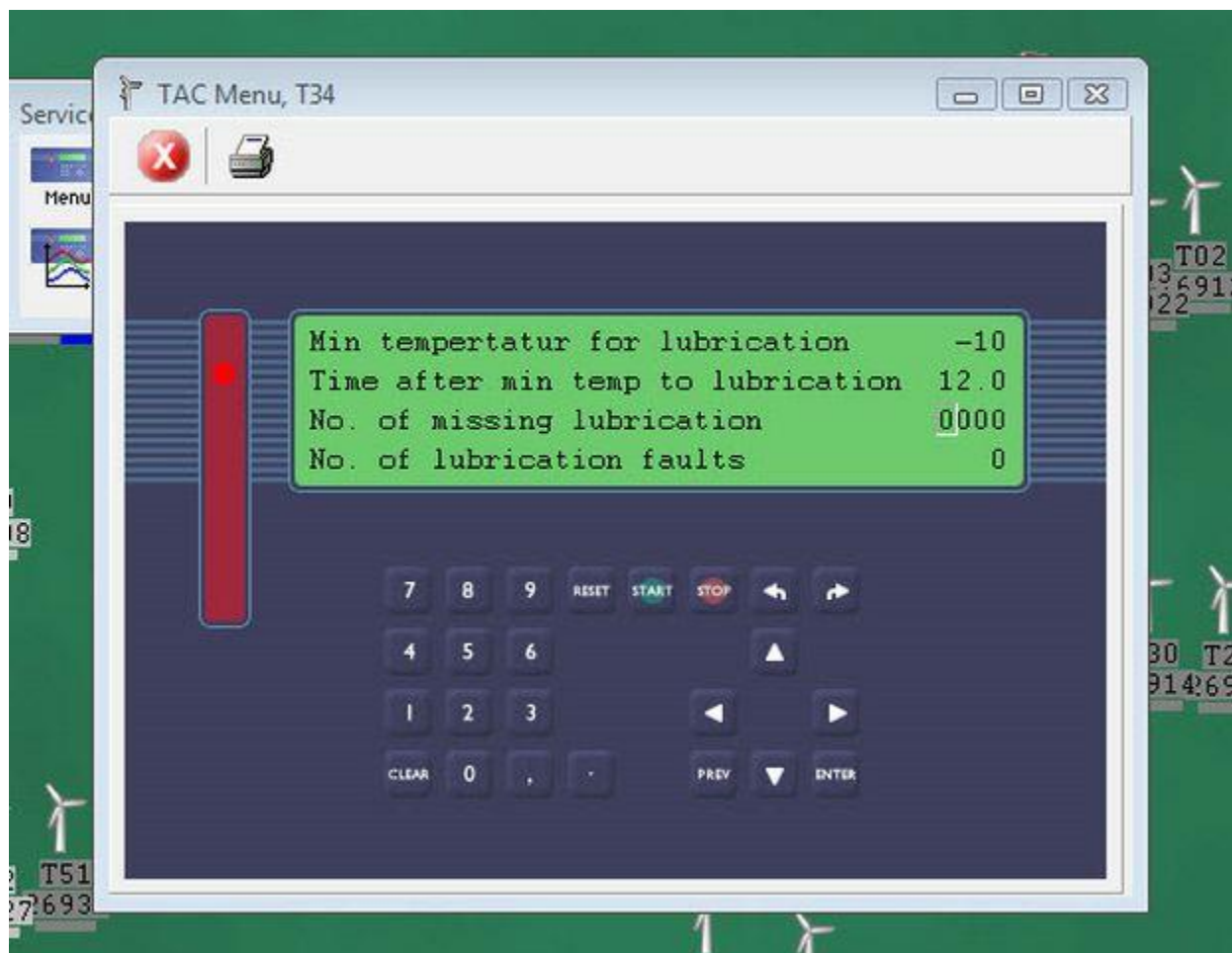**Does this solve the problem?**

1] Yes

2] No

3] I don't know

- **Explanation**
It is essential that all counters for lubrication faults and missing lubrication cycles are reset when the scheduled service is done at the turbine. Otherwise the turbine will perform all the missing lubrications sequences at once after restarting the turbine.

In the Configuration menu, select Operation Parameters, then scroll down and select Lubrication Pump. Scroll down until you are on "No. of missing lubrication". Then press right to edit the number and enter 0.

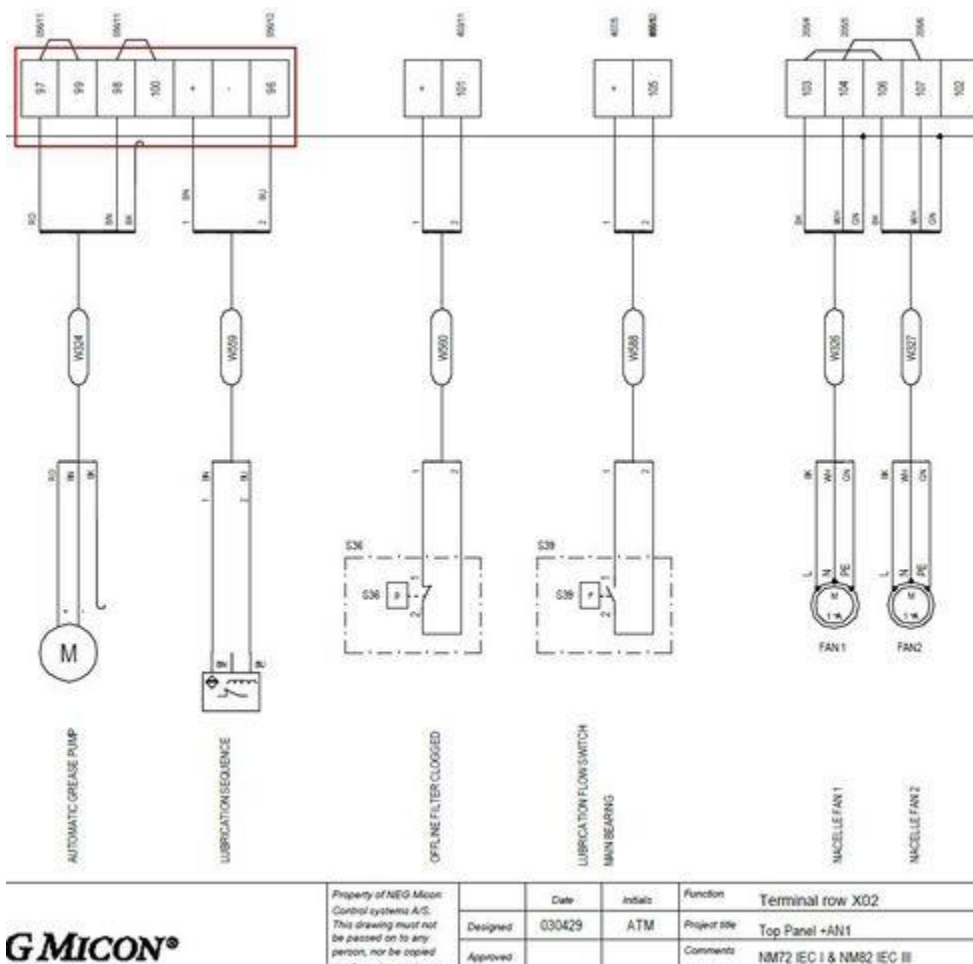**Check the feedback signal at the TOI**

Does this solve the problem?

1] Yes
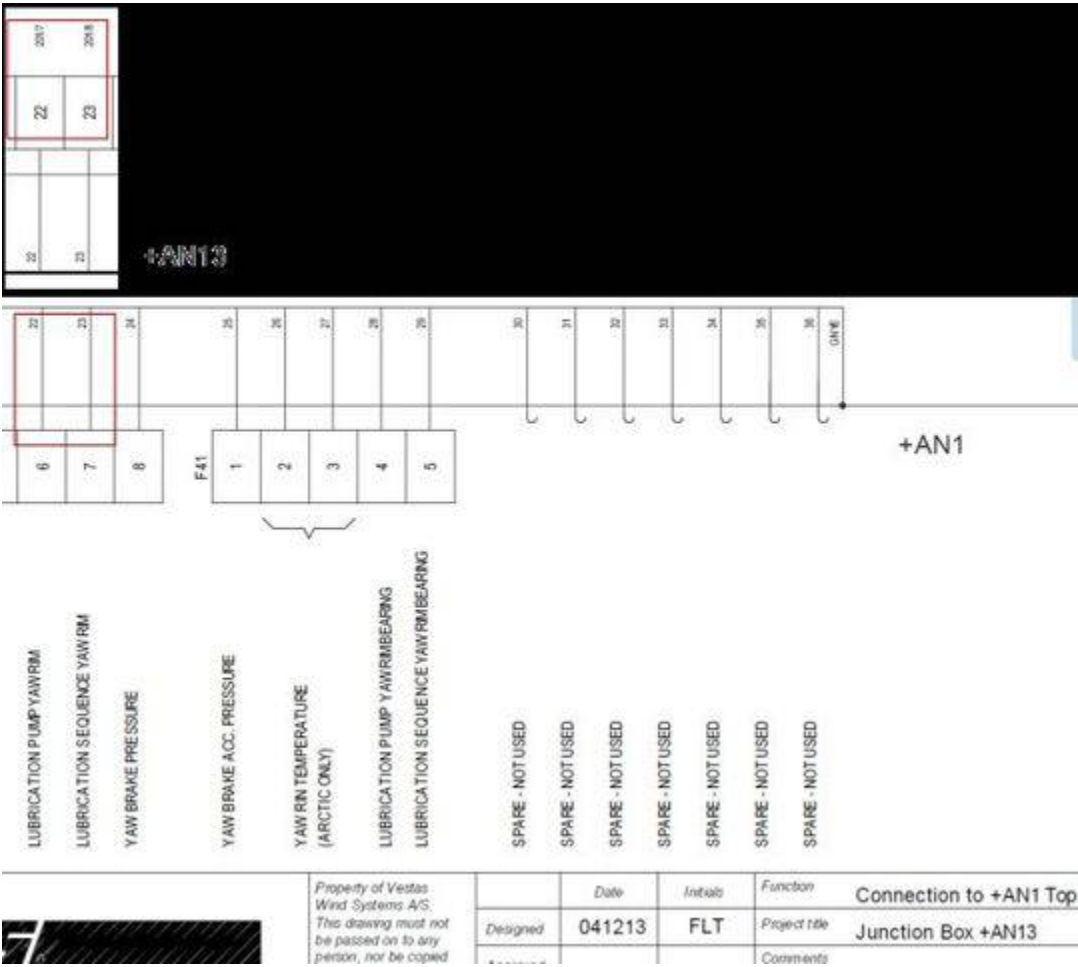
2] No

3] I don't know

- **Explanation**
  Check the nacelle TOI for input 627. The input should be active once during the lubrication cycle.

  If the input is never active, verify the proximity sensor on the distribution manifold functions. If the sensor works, check the circuit for continuity and shorts to ground.

  Mk1 : Check the loose connection in AN1 at X01 connector, terminal 96,97 &98

	Property of NEG Micon Control systems A/S. This drawing must not be passed on to any person, nor be copied		Date	Initials	Function	Terminal row X02
G MICON®		Designed	030429	ATM	Project title	Top Panel +AN1
		Approved			Comments	NM72 IEC I & NM82 IEC III

Mk2 & above: Check the loose connection in AN13 (terminals 22 &23), in AN1 panel (terminals 6 & 7 at F40 varistor).

+AN13

+AN1

LUBRICATION PUMP YAW RIM
LUBRICATION SEQUENCE YAW RIM
YAW BRAKE PRESSURE
YAW BRAKE ACC. PRESSURE
YAW RIM TEMPERATURE (ARCTIC ONLY)
LUBRICATION PUMP YAW RIM BEARING
LUBRICATION SEQUENCE YAW RIM BEARING
SPARE - NOT USED
SPARE - NOT USED
SPARE - NOT USED
SPARE - NOT USED
SPARE - NOT USED
SPARE - NOT USED
SPARE - NOT USED

	Date	Initials	Function	Connection to +AN1 Top
Property of Vestas Wind Systems A/S. This drawing must not be passed on to any person, nor be copied				
Designed	041213	FLT	Project title	Junction Box +AN13
			Comments	

If input 627 is active but the alarm is still given. You may have a bad nacelle TOI.

Relevant spare parts	
Description	**Item No.**
VARISTOR BOX X8	51706201

Check the proximity switch for grease actuator

Does this solve the problem?

1] Yes

2] No

3] I don't know

- **Explanation**

The actuator for the distribution manifold moves back and forth during a pump cycle, the movement of this rod triggers the proximity switch to register one lubrication cycle was done. If the actuator isn't moving or the proximity switch isn't functional, the lubrication sequence ok signal will never make it to the TOI.

Clean out the distribution block or replace it. Test the function and grease delivery to all the lines before you finish.

If the proximity switch isn't functioning, replace it.

Relevant spare parts	
Description	**Item No.**
PISTON DETECTOR M11x1	60068917

Inspect the distribution lines and manifold

Does this solve the problem?

1] Yes

2] No

3] I don't know

- **Explanation**

  Check the distribution manifold

  Make sure that the grease is actually reaching the lubrication points on the bearing.

  Inspect all feed lines for leakage or damage. Replace defective lines if necessary.

Item	Item No.
PRESSURDISTRIBUTOR BLOCK SSV6 MOBILIT	60091238
HOSE F. AUTOM. LUBRIC.OF BEARI	60105111
CONNECTING PIECE, HIGH	60068910
HOSE CONNECTING PIECE 90DEG	60068911
HOSE Ø8,6 x 2,1 HIGH PRESSURE	60068931

Ensure the lubricator pump runs

Does this solve the problem?

1] Yes

2] No

3] I don't know

- **Explanation**

  Operate the pump with the TAC service menu.

  If the pump does not run, check the TOI for output 802 (while the pump is turned on). If the output is missing, something is wrong with the nacelle TOI.

If output 802 is active, ensure power reaches the pump. If the pump has power and doesn't operate, it is defective.

If the power doesn't reach the lubricator pump, check the circuit. Start with both ends of the W613.

Item	Item no.
(K 11) RELAY RT424024 8A 24V 2P	60004513
(F04) MCB 5SX21037 3.0A C 1P	60005135