

27th of December 2017

Technical Notification (TN) 07-17

**Subject: Inspection & Maintenance schedule for TMC 7-27
Feed Air Compressors**



Introduction:

This Technical Notification is an attachment to TN 03-17 or TN 04-17 and must be considered as an integrated part of the supplied PRISM® Membrane Nitrogen Generator System.

References:

TN 03-17: Applies to Large Capacity PRISM® Membrane Nitrogen Generator Systems

TN 04-17: Applies to Small and Medium Capacity PRISM® Membrane Nitrogen Generator Systems

Standard Service Chart TMC 7-27

Service Schedule

- 1) Checkpoints before/when starting
- 2) After first 300 hours and then once a year
- 3) Every 1500 hours or once a year *
- 4) Every 3000 hours or once a year *
- 5) Every 9000 hours or every 2^{rd.} year *
- 6) Every 20000 hours
- 7) Every 35000 hours

* Whichever comes first.

Operation	1	2	3	4	5	6	7
Check controller display for alarms	X						
Check function water separator	X						
Check oil level**	X						
Check hoses for leakages	X						
Check running temperature	X						
Tighten electrical cables		X	X				
Tighten connections and screws		X	X				
Check contactor contacts			X				
Replace oil filter		X	X				
Change oil */**			X				
Replace oil separator cartridges				X			
Check and clean orifice for oil return				X			
Replace air filter				X			
Replace electric el.box filter*****			(X)	X			
Change belts				X			
Clean cooler inside (water cooled compressors)					X		
Clean cooler externally (air cooled compressors)			X				
Check operation of pressure relief valve				X			
Replace Rep. kit inlet valve					X		
Replace Rep. kit Discharge valve					X		
Change Solenoid valve for load function					X		
Change Solenoid valve for drain					X		
Change oil thermostat element					X		
Change membrane in valve PS 2 (optional)					X		

Replace air and oil hoses					X		
Check air end and motor pulleys				X			
Re-greasing of bearings in el. motor*/***				X			
Replace motor bearings						X	
Replace compressor Air End with a factory reconditioned unit.							X
Automatic condensate level drain****				X			

* For oil & grease recommendation-see instruction manual “oil and lubrication recommendation”, motor name plate or motor manual.

** Stop the compressor for at least 10 minutes before checking oil. See also number 4 in the list below for more information.

*** All models except for TMC 7 and TMC 10 models which have enclosed bearings that shall not be lubricated

**** Optional equipment. Check yearly & replace rep.kit when if required

***** Replace electrical el.box filter every 1500 hours on all SA compressors

Maintenance of Compressor

1. Do not fill oil between oil changes without knowing the reason for the oil consumption. Keep a log for oil filling between oil changes stating amount of oil and type of oil filled. **Never mix oil and grease types.**
2. The compressor need to be started minimum once a week and to be loaded for one hour to secure that all water condensate in the oil system is evaporated.
3. As a guideline, the running temperature of the compressor need to be minimum 50°C above the cooling media or ambient temperature, whatever is highest. Check condensate after water separator daily. The condensate shall never be more than light milky white in color.

Cautions:

- All alarms and service signals from the compressor controller must be followed.
- Do not mix different oil or grease types as this will lead to high risk of oxidation.
- Always adjust service counter in controller when servicing the compressor.
Different installations, ambient temperature and running conditions might lead to different service schedule.
- Intervals are based on synthetic screw compressor oil ISO VG 46.