

Maintenance schedule VN301plus

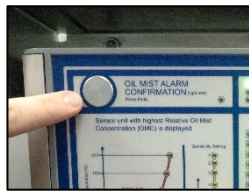
The recommended maintenance schedule must be followed as described below to ensure highest safety standard for your engine operation. The maintenance schedule is to be viewed as precautionary measures in relation to technical problems.

It is recommended to use authorized service personnel every 2 years to inspect the entire oil mist detector system to ensure proper functionality of the complete installation.

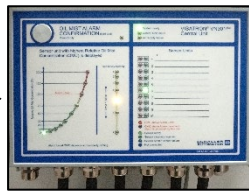
NOTE: All maintenance steps should be performed while engine is stopped!

Proc. no.:	Description of work:	Interval & required parts/tools:
1	<ul style="list-style-type: none"> 01.301: Check and adjust the supply pressure setting on the central unit, to be set to 2.5 bar. 	Every 3 months or 2000 hrs. - whatever comes first!
2	<ul style="list-style-type: none"> 02.301: Clean the infrared lenses in the sensors with cotton pins and cleaning fluid. 03.301: Exchange air filters in the pressure regulator. 	Every 6 months or 4000 hrs. - whatever comes first! 151482 - Cleaning kit 151781 – VN301plus toolbox 155003 – VN301plus maintenance kit
3	<ul style="list-style-type: none"> 04.301: Perform functional test of all connected sensor units with smoke test tube. 	Every 12 months or 8000 hrs. - whatever comes first! 151779 – VN301plus service box
4	<p>Main two-year service (2 years) by authorized and certified Schaller personnel only!</p> <ul style="list-style-type: none"> Service and test of complete Oil Mist Detector installation incl. software check and upgrade if necessary. Service certificate to be approved by authorized personnel! <p>Please contact us for authorized personnel at: epp@epp.no</p>	Every 24 months or 16000 hrs. - whatever comes first!
5	<p>Main four-year service (4 years) by authorized and certified Schaller personnel only!</p> <ul style="list-style-type: none"> Service and test of complete Oil Mist Detector installation incl. software check and upgrade if necessary. Service certificate to be approved by authorized personnel! <p>Please contact us for authorized personnel at: epp@epp.no</p>	Every 48 months or 32000 hrs. - whatever comes first!

Section 01.301: Check and adjust the supply pressure setting on the central unit.



1. Press the oil mist alarm confirmation button twice to activate OMC mode.



2. Repeatedly press the oil mist alarm confirmation button until the last sensor is displayed on the "sensor units" field.



3. Press the oil mist alarm confirmation button again to enter supply pressure settings.



4. Unlock the pressure adjustment cap by pushing it up.



5. Adjust the pressure by turning the cap. Anticlockwise reduces the pressure and clockwise increases it.



6. The target is a continuous flow of 2.5 bar (OMC 50% on the Relative Oil Mist Concentration display)



7. Once the target is reached and stable, lock the pressure adjustment cap by pushing it down.

Section 02.301: Clean the infrared lenses in the sensors.



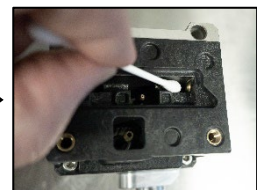
1. Stop the engine and close the incoming air pressure.



2. Disconnect the hybrid cable from the sensor housing.



3. Unscrew the 4 screws below the sensor housing to separate it from the engine wall connection.



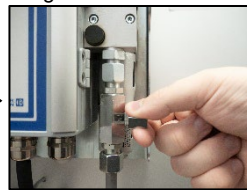
4. Use cotton sticks and cleaning fluid to clean the sensor lens and oil mist channel.



5. Reassemble the sensor unit.

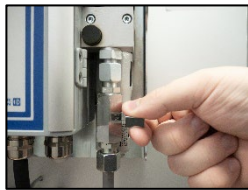


6. Perform the same steps on all the sensor units connected to the system.

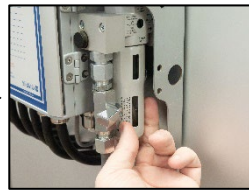


7. Once all units have been cleaned, open the incoming air pressure.

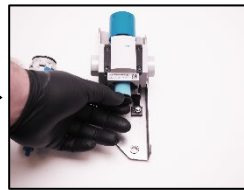
Section 03.301: Exchange air filters in the pressure regulator.



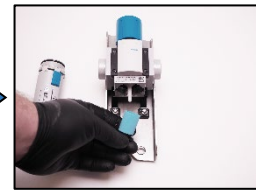
1. Close the air pressure.



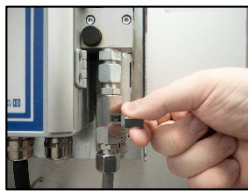
2. Unscrew the filter cage.



3. Unscrew the black plastic disc and remove the dirty filter.



4. Screw in the new filter counter clockwise and make sure that it is aligned for installation



5. Reinstall the filter cage and open the air supply again.

Section 04.301: Perform functional test of all connected sensor units with smoke test tube.



1. Unscrew the oil mist test inlet on the top of the sensor.



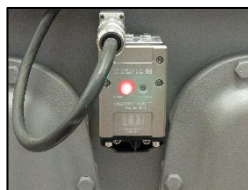
2. Connect the smoke test adapter to the inlet.



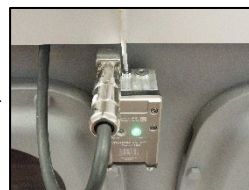
3. Break the glass capsules in the smoke test ampulla.



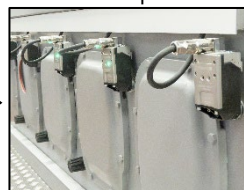
4. Pump with the hand pump a few times to push smoke into the sensor.



5. The alarm LED on the sensor blinks when an oil mist alarm is triggered, and alarm will be indicated on the central unit.



6. Disconnect the smoke test adapter and screw in the plug.



7. Repeat the procedure on all sensor to ensure full functionality.