

TMC Service Bulletin No.03 2012

Subject: Control procedure to detect - oil carry-over from the compressor

TMC's oil separation system ensures clean compressed air, with an oil content that is normally below 3 mg/m³. Normally, there should be no reason to add oil between the defined oil change intervals. If abnormal oil consumption occurs please check the following:

- The oil type must be according to the specifications in the service manual and the list of recommended oil types.
When in doubt please contact TMC for recommendation or confirmation of whether your oil can be used or not.
- The oil separator elements are critical and must be original TMC type.
Laboratory tests have shown an oil carry-over from **12 up to 343 mg/m³** when using separator filters from the **non-genuine** market. When original TMC elements were used for the same test conditions the oil carry-over was at 0.6 mg/m³.
- When changing oil separator elements always check that oil return line from the separator receiver to the air-end is open and change the strainer and the orifice.
Separator elements, strainer, orifice and necessary o-rings are included in TMC separator kits.
- Check the oil level according to the **enclosed bulletin** and do not add any oil if only a few litres are missing. This oil is normally still in the internal oil circulation system.
- If the running temperature is constantly higher than 95°C, reduce the service intervals for oil and oil filter to every 1000 running hours.
- Determine whether the oil consumption is due to leakages or oil carry-over. If you find the cause to be oil carry-over, please log when refilling how much oil is refilled and the running hours of the compressor. Check the condensate from the water separator if oil carryover is suspected. Normal condensate water has a light milky white colour.
- With all types of compressors some oil and particles from the ambient atmosphere, engine room, or the cooling oil will be entering your system. By using the correct aftertreatment filters you can easily achieve air quality according to ISO class (ISO 8573.1) class one technical oil free air, which means 0.01 mg/m³.

If you have any questions, please contact TMC technical support, by e-mail aftersales@tmc.no or telephone +47 22 91 85 00.

19.04.2012/EN