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Type test certificate

Dear Sirs,

We have measured the total oil content (aerosols, liquids and vapours) in the outlet air stream of an Atlas Copco water-cooled P series oil-free piston compressor. The measurements were done in accordance with the following guidelines and standards:

ISO 8573-1 : 2010 Part 1 : Contaminants and purity classes

ISO 8573-2 : 2007 Part 2: Test methods for aerosol oil content method B1 (full flow method)

ISO 8573-5 : 2001 Part 5: Test methods for oil vapor and organic solvent content

This being a type test, covering the entire range of water-cooled oil-free compressors with HX crankcase a model was randomly selected for the tests. The tests were carried out at the outlet of the air compressor without any oil removal devices in between the compressor and the measurement point. Different pressures were maintained at the compressor's outlet to check if there was any variation in the measurements.

The conditions of the test were:

Temperature at the measurement point: ambient.

Discharge pressure of the P compressor during measurements:

ca. 40 bar (e), 35 bar (e), 30 bar (e) 25 bar (e)

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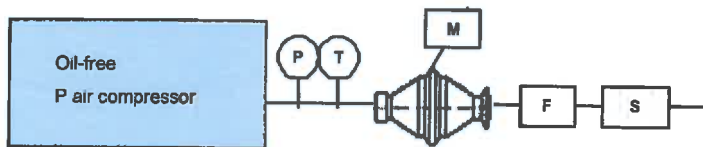
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Principle diagram for full flow measurement of Aerosols and liquids as per ISO 8573 Part 2, method B1



Legend :

P : Pressure indicator

T : Temperature indicator

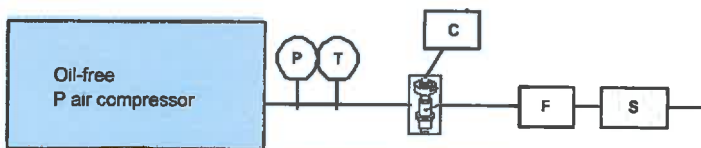
M : Measurement point with membrane

F : Flow meter

S : Silencer

C : Measurement point for oil vapour

Principle diagram for measurement of oil vapour and organic solvent content as per ISO 8573 Part 5



It is to certify that at the test conditions, no oil deriving from the compressor (including all hydrocarbons C6 and above) could be detected in the compressed air stream. On the basis of this test, we can certify the results to be valid for the water-cooled oil-free compressor range with HX crankcase.

It is to certify that the quality of air from the above compressors qualifies to be in the category 'Class 0' in terms of total oil content, as defined in the standard ISO 8573-1 : 2010 Part 1.

A detailed report with all conditions of the tests and results is available.

Best Regards

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