Industrie Service Energie und Umwelt



TÜV Rheinland Energy GmbH 51101 Köln

ALUP Kompressoren GmbH

931 / 21247613 / 01

Norbert Horlemann Tel. +49 221 806-1896 Fax +49 221 806-1461 Mail horlema@de.tuv.com 05 December 2019

Test certificate Validation according ISO 8573-1: 2010 Part 1: Contaminants and purity classes

Dear Sirs,

We have measured the total oil content (aerosols, liquids and vapours) in the outlet air stream of an Alup air-cooled oil-free screw 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 : 2018 Part 2: Oil aerosol content method B1 (full flow method)

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

This being a type test, covering the entire range of air-cooled and watercooled oil-free screw compressors, between 55 kW and 90 kW, a model was randomly selected for the tests. For the test a compressor type: OF-100V was selected.

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. The conditions of the test were:

Temperature at the measurement point (Membrane): ca. 63 °C Temperature at the measurement point (Carbon): ca. 39° C

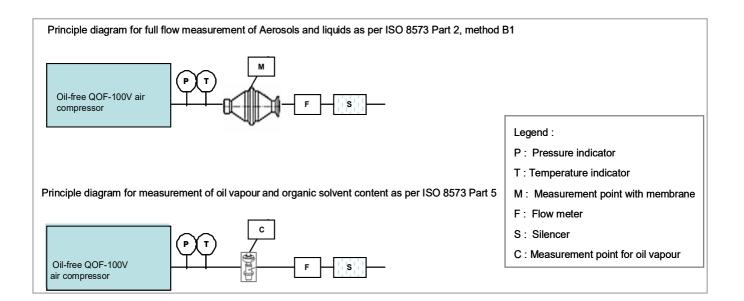
Pressure at the measurement point (Membrane): ca. 8.5 bar (e) Pressure at the measurement point (Carbon): ca. 8.6 bar(e) TÜV Rheinland Energy GmbH Am Grauen Stein 51105 Köln

Tel. +49 221 806-5200 Fax +49 221 806-1349 Web <u>www.umwelt-tuv.de</u> <u>www.eco-tuv.com</u>

Geschäftsführung Dirk Fenske

Amtsgericht Köln HRB 56171





It is to certify that at the test conditions, no oil (c <0.01 mg/m³) deriving from the compressor (including all hydrocarbons C6 and above) could be determined in the compressed air stream. On the base of this test, we can certify the results of this test to be valid for the entire oil-free screw compressors range OF75-125, OF100-125V

It is to certify that the quality of air from the above compressor 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

i. V.

i. A.

U. Danya

Dr. rer. nat. Walter Dormagen

11 bollen

Dr. rer. nat. Norbert Horlemann