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DEVICE

Atlas Copco Airpower n.v.
Air compressor ZT 90 VSD-FF
Report No. AT 1310-673

Statement of
Qualification

PWIS

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Statement of Qualification

Customer:

Atlas Copco Airpower n.v.
Boomsesteenweg 957
2610 Wilrijk
Belgium

Component tested

Category:	Process Equipment
Sub-category:	Pneumatic Components
Product name:	Air compressor ZT 90 VSD-FF

Contamination behaviour regarding paint wetting impairement substances (PWIS) in compressed air

Standards / Guidelines:

PV 3.10.7
The norms stated refer to the relevant editions applicable at the time of the tests.

Measurement devices:

- Paint: ..... water-based car repair paint
- Binocular: ..... Zeiss EMS 1 with Zeiss KL 2500 LCD

Test environment parameters:

Test laboratory at Atlas Copco Airpower n.v.

Test procedure parameters:

- Total air flow compressor: ..... 221 L/s
- Inner diameter sampling tube: ..... 6 mm
- Air pressure: ..... 7.1 bar
- Sampling time: ..... 30 s

Sampling is done in triplicate. Painting of the samples is done immediately after sampling. Microscopic analysis of the painted surfaces is done at Fraunhofer IPA. Positive and negative control measurements are implemented to determine the test performance.

Test result / Classification:
(according to PV 3.10.7)

Result	Classification
No PWIS detectable	PWIS-free air

The compressed air from the analyzed compressor ZT 90 VSD-FF can be classified as PWIS-free air. The examined air from the air compressor did not contain any detectable PWIS even under microscopic inspection.

The measuring devices used for the qualification tests are calibrated at regular intervals; their results can be traced back to national and international standards. In cases where no national standards exist, the test procedure implemented complies with the technical regulations and norms applicable at the time of the test. The relevant documentation can be viewed on request at any time.

For further information about the test environment and parameters, please refer to the Fraunhofer IPA test report.

Fraunhofer Institute for
Manufacturing Engineering and Automation IPA

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and Micromanufacturing

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Stuttgart, March 20, 2014
Place, date of first document issued

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Place, current date

i. A.
Frank Bürger, Project Manager Fraunhofer IPA

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