DAkkS
Deutsche
Akkreditierungsstelle

Deutsche Akkreditierungsstelle GmbH

Entrusted according to Section 8 subsection 1 AkkStelleG in connection with Section 1 subsection 1 AkkStelleGBV
Signatory to the Multilateral Agreements of
EA, ILAC and IAF for Mutual Recognition

Accreditation

The Deutsche Akkreditierungsstelle GmbH attests that the testing laboratory

Quality Analysis GmbH
Großer Forst 1, 72622 Nürtingen

is competent under the terms of DIN EN ISO/IEC 17025:2005 to carry out tests in the following fields:

determination of technical cleanliness of components, systems and fluids; hardness test on metallic materials; Industrial computed tomography (ICT) and industrial measuring technique (IMT) on components of non-metallic and metallic materials, synthetics, sandwich materials and organic materials

The accreditation certificate shall only apply in connection with the notice of accreditation of 02.03.2018 with the accreditation number D-PL-11108-01 and is valid until 21.10.2020. It comprises the cover sheet, the reverse side of the cover sheet and the following annex with a total of 3 pages.

Registration number of the certificate: **D-PL-11108-01-00**

Frankfurt am Main, 02.03.2018	Dipl.-Ing. (FH) Ralf Egner Head of Division	Translation issued: 29.03.2018	Head of Division

This document is a translation. The definitive version is the original German accreditation certificate.

See notes overleaf.

Deutsche Akkreditierungsstelle GmbH

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The accreditation was granted pursuant to the Act on the Accreditation Body (AkkStelleG) of 31 July 2009 (Federal Law Gazette I p. 2625) and the Regulation (EC) No 765/2008 of the European Parliament and of the Council of 9 July 2008 setting out the requirements for accreditation and market surveillance relating to the marketing of products (Official Journal of the European Union L 218 of 9 July 2008, p. 30). DAkkS is a signatory to the Multilateral Agreements for Mutual Recognition of the European co-operation for Accreditation (EA), International Accreditation Forum (IAF) and International Laboratory Accreditation Cooperation (ILAC). The signatories to these agreements recognise each other's accreditations.

The up-to-date state of membership can be retrieved from the following websites:
EA: www.european-accreditation.org
ILAC: www.ilac.org
IAF: www.iaf.nu

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-PL-11108-01-00 according to DIN EN ISO/IEC 17025:2005

Period of validity: 02.03.2018 to 21.10.2020 Date of issue: 29.03.2018

Holder of certificate:

Quality Analysis GmbH
Großer Forst 1, 72622 Nürtingen

Tests in the fields:

determination of technical cleanliness of components, systems and fluids; hardness test on metallic materials; Industrial computed tomography (ICT) and industrial measuring technique (IMT) on components of non-metallic and metallic materials, synthetics, sandwich materials and organic materials

Abbreviations used: see last page

1 Determination of technical cleanliness of components, systems and fluids

1.1 Determination of technical cleanliness of components for fluid systems

ISO 16232-3 2007-06	Road vehicles - Cleanliness of components of fluid circuits - Part 3: Method of extraction of contaminants by agitation
ISO 16232-4 2007-06	Road vehicles - Cleanliness of components of fluid circuits - Part 4: Method of extraction of contaminants by ultrasonic techniques
ISO 16232-5 2007-06	Road vehicles - Cleanliness of components of fluid circuits - Part 5: Method of extraction of contaminants on functional test bench
ISO 16232-6 2007-06	Road vehicles - Cleanliness of components of fluid circuits - Part 6: Particle mass determination by gravimetric analysis
ISO 16232-7 2007-06	Road vehicles - Cleanliness of components of fluid circuits - Part 7: Particle sizing and counting by microscopic analysis

ISO 16232-8 2007-06	Road vehicles - Cleanliness of components of fluid circuits - Part 8: Particle nature determination by microscopic analysis

1.2 Determination of particulate contamination of functionally relevant automotive components

VDA Volume 19 2004	Inspection of technical cleanliness - Particulate contamination of functionally relevant automotive components *(Chapter D, E.1 to E.4, F.1 to F.4)*
VDA Volume 19.1 2015	Inspection of technical cleanliness - Particulate contamination of functionally relevant automotive components *(Chapter D, E.1 to E.4, F.1 to F.4)*

1.3 Determination of particulate contamination of fluids

ISO 4405 1991-05	Hydraulic fluid power - Fluid contamination - Determination of particulate contamination by the gravimentric method
ISO 4407 2002-04	Hydraulic fluid power - Fluid contamination - Determination of particulate contamination by the counting method using an optical microscope

2 Hardness test on metallic materials

DIN EN ISO 6507-1 2006-03	Metallic materials - Vickers hardness test - Part 1: Test method

3 Industrial computed tomography (ICT)

AA 1030-002 2017-11	Determination of dimensional and form deviations on components, defect analyzes, assembly analyzes, 3D nominal-actual comparison on the basis of CAD data, execution and documentation of prototype, initial sample and series tests by means of industrial computertomography

4 Industrial measuring technique (IMT)

AA 1030-001 2017-11	Determination of dimensional and form deviations on components of different materials, execution and documentation of prototype, initial sample and series tests with the help of tactile 3D-coordinate metrology with the option of a turntable as well as 3D nominal-actual comparison on the basis of CAD data

abbreviations used:

AA	Testing procedure of Quality Analysis GmbH
DIN	German Institut for standardization
ISO	International Organization for Standardization
EN	European Standard
VDA	German Association of the Automotive Industry
IMT	Industrial measuring technique
ICT	Industrial computed tomography