

## 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 

# Deutsche Akkreditierungsstelle GmbH

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The publication of extracts of the accreditation certificate is subject to the prior written approval by Deutsche Akkreditierungsstelle GmbH (DAkKS). Exempted is the unchanged form of separate disseminations of the cover sheet by the conformity assessment body mentioned overleaf.

No impression shall be made that the accreditation also extends to fields beyond the scope of accreditation attested by DAkKS.

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](http://www.european-accreditation.org)

ILAC: [www.ilac.org](http://www.ilac.org)

IAF: [www.iaf.nu](http://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



Annex to the accreditation certificate D-PL-11108-01-00

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 gravimetric 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 computertomo-  
graphy

#### **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