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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 39095-2020

**Aerospace - Hydraulic fluid components - Expression of
particulate contamination levels**

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

The translation method used in this standard is equivalent to ISO 12584.2013 "Particle Pollution Degree of Aerospace Hydraulic Fluid Parts

The expression of ".

The Chinese documents that have a consistent correspondence with the international documents cited in this standard are as follows.

---GB/T 18854-2015 Hydraulic fluid automatic particle counter calibration (ISO 11171.2010, MOD)

---GB/T 20110-2006 The cleanliness of hydraulic transmission parts and components is related to the collection, analysis and data reporting of pollutants

Inspection documents and guidelines (ISO 18413.2002, IDT)

This standard was proposed and managed by the National Aircraft Standardization Technical Committee (SAC/TC435).

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1 Scope

This standard specifies the expression and reporting method for the cleanliness or particle contamination level of aerospace fluid system components.

This standard also specifies a code system that allows when expressing particle contamination level measurement results or detailing cleanliness requirements

Characterize cleanliness data in a short or complete manner.

2 Normative references

The following documents are indispensable for the application of this document. For dated reference documents, only the dated version applies to this article

Pieces. For undated references, the latest version (including all amendments) applies to this document.

ISO 11171 hydraulic fluid power-calibration of automatic particle counting counter
(Hydraulicfluidpower-Calibrationof
automaticparticleforliquids)

ISO 18413 Inspection documents and criteria related to cleanliness of hydraulic transmission components and extraction, analysis and data reporting of pollutants
(Hydraulicfluidpower-Cleanlinessofcomponents-Inspectiondocumentandprinciplesrelatedto
contaminantextractionandanalysis, anddatareporting)

3 Terms and definitions

The following terms and definitions apply to this document.

3.1

Component

Including a part, a component, or a larger component assembled from several components used in an aerospace fluid system.

3.2

Component cleanliness

The status of parts and components characterized by particle pollution level.

3.3

Component cleanliness code componentcleanlinesscode

CCC

Letters and numbers that indicate the cleanliness level of measured parts or fluid circuits.

3.4

Particulatecontamination

All bad particles on the inner and outer surfaces of the parts.

3.5

Wettedsurfaces

AC

The surface of the component in contact with the system fluid.

Example. hydraulic gear pump (see Figure 1).