INTERNATIONAL STANDARD

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Second edition
2017-02

Aerospace — Cleanliness classification for hydraulic fluids

Aéronautique et espace — Classes de propreté des fluides hydrauliques

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

The committee responsible for this document is ISO/TC 20, *Aircraft and space vehicles*, Subcommittee SC 10, *Aerospace fluid systems and components*.

This second edition cancels and replaces the first edition (ISO 11218:1993), which has been technically revised with the following change:

— references to AS 4059 have been updated.

Aerospace — Cleanliness classification for hydraulic fluids

1 Scope

This document specifies a cleanliness classification for hydraulic fluids in aeroplanes, helicopters and space vehicles.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

AS4059F, *Aerospace fluid power — Contamination classification for hydraulic fluids*

3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

— IEC Electropedia: available at http://www.electropedia.org/

— ISO Online browsing platform: available at http://www.iso.org/obp

4 Requirements

Requirements are specified in SAE AS4059F[1)] which is adopted as a *de facto* ISO International Standard.

For the purposes of international standardization, the modification outlined below shall apply to the specific clause of AS4059F.

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2 Reference documents

Add the following reference:

ISO 5884, *Aerospace — Fluid Systems and components — Methods for system sampling and measuring the solid particle contamination of hydraulic fluids*

5 Identification statement (reference to this document)

Use the following statement when electing to comply with ISO 11218:

"Hydraulic fluid cleanliness classifications in accordance with ISO 11218."

1) AS4059F is a copyrighted publication of the Society of Automotive Engineers (SAE). Copies of the original text in English are available from: Society of Automotive Engineers, 400, Commonwealth Drive, Warrendale, PA 15096-0001, USA.

6 Revision of AS4059F

It has been agreed with SAE that Technical Committee ISO/TC 20 will be consulted in the event of any revision or amendment of AS4059F.