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Lubricants, industrial oils and related products — Determination of the foaming and air release properties of industrial gear oils using a spur gear test rig — Flender foam test procedure

Lubrifiants, huiles industrielles et produits connexes — Détermination des caractéristiques de moussage et de désaération des huiles pour engrenages industriels au moyen d'un montage d'essai à engrenage cylindrique — Mode opératoire de l'essai de moussage Flender



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Foreword

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International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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.

ISO 12152 was prepared by Technical Committee ISO/TC 28, *Petroleum products and lubricants*.

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Introduction

Excessive formation of foam by a lubricant in service may affect the gearbox service negatively. The reason for foaming might be poor antifoaming and air release properties of the lubricant and/or contamination of the lubricant in service. In order to study the foaming properties of lubricants during the formulation work, numerous laboratory glassware tests, e.g. the test procedure used for gear oils that is described in ISO 6247, have been developed. As the foam formation during this test is different to the foam formation in a real gear drive, the demand for a standardized foam test, using test conditions close to those seen in a gear drive, has been increasing. The requirements for lubricants for gearboxes in wind turbines have finally led to this International Standard.

It has been assumed by the compilers of this test method that anyone using the method will be either fully trained and familiar with all normal engineering and laboratory practice, or under the direct supervision of such a person.

It is the responsibility of the operator to ensure that all local legislative requirements are met.