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JIS D 1617 : 1998

Automotive Parts —
Fuel Filters for Diesel Engines —
Test Methods

ICS 43.060.40

Descriptors : road vehicle components, diesel engines, fuel filters, performance testing

Reference number : JIS D 1617 : 1998 (E)

D 1617 : 1998

Foreword

This translation has been made based on the original Japanese Industrial Standard revised by the Minister of International Trade and Industry through deliberations at Japanese Industrial Standards Committee in accordance with the Industrial Standardization Law. Consequently **JIS D 1617 : 1995** is replaced with **JIS D 1617 : 1998**. Giving consideration upon deliberations on the draft International Standards at **ISO TC/22**, Road vehicles, being in charge of **ISO 4020/1** which is the International Standard corresponding to this Standard, in this revision, this Standard prepared as that provided with the main text containing the technical content without modification but modifying the structure, using terms, etc. of **JIS D 1617 : 1995**, and with the Annexes (normative) based on **ISO 4020/1 : 1979**.

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In the event of any doubts arising as to the contents,
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Automotive parts—Fuel filters for diesel engines— Test methods

Introduction This Japanese Industrial Standard has been prepared as that provided with the main text containing the technical content of JIS D 1617 : 1995 without any modification, and with Annexes based on the first edition of ISO 4020/1 published in 1979 which is the International Standard corresponding to this Standard, without modifying the technical content and structure.

1 Scope This Japanese Industrial Standard specifies test methods for performance of fuel filters mainly used for automotive diesel engines (hereafter referred to as “filter”).

Remarks : The following International Standard corresponds to this Standard.

ISO 4020/1 : 1979 *Road vehicles—Fuel filters for automotive compression ignition engines—Part 1 : Test methods*

2 Normative reference The following standards contain provisions which, through reference in this Standard, constitute provisions of this Standard. The most recent editions (including amendments) of the standards shall be applied.

JIS D 1601 *Vibration testing methods for automobile parts*

JIS D 1611 *Automotive parts—Test methods of lubricating oil filters*

JIS H 3300 *Copper and copper alloy seamless pipes and tubes*

JIS K 2204 *Diesel fuel*

JIS K 2503 *Testing method of lubricating oil for aircraft*

JIS Z 8703 *Standard atmospheric conditions for testing*

JIS Z 8901 *Test powers and test particles*

3 Definitions For the purpose of this Standard the following definitions apply.

- a) **rated flow** Oil flow rate defined upon agreement between the parties concerning with delivery, or that indicated by the manufacturer. Express in liter per min (l/min).
- b) **slurry** Mixture of test oil and test contaminant.
- c) **contaminant retention** Amount of contaminant retained by the filter until increase of pressure difference is reached an indicated value. Express in gram (g).
- d) **pressure difference** Difference of static pressures taken at the inlet and outlet of a filter. It is expressed in kilopascal (kPa).
- e) **filtering cleanliness** Amount of contaminant in 1 l of test oil which has been passed through the filter. It is expressed in milligram per liter (mg/l).
- f) **water separation efficiency** Water amount contained in 1 l of test oil which has been passed through the filter. It is expressed in milligram per liter (mg/l).

4 Test items Test items of the filter are listed as the following :

- a) **Pressure difference test**