

ISO 19438:2003-11 (E)

Diesel fuel and petrol filters for internal combustion engines - Filtration efficiency using particle counting and contaminant retention capacity

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	2
4	Symbols	2
5	Test equipment and materials	2
5.1	Test equipment	2
5.2	Test materials	5
6	Accuracy of measuring instruments and test conditions	5
7	Test rig validation	6
7.1	General	6
7.2	Validation of the on-line dilution and particle counting system	6
7.3	Validation of filter test circuit	6
7.4	Validation of contaminant injection circuit	7
8	Preliminary preparation	7
8.1	Test filter assembly	7
8.2	Contaminant injection circuit	7
8.3	Filter test circuit	9
9	Test procedure	9
9.1	Initial procedure	9
9.2	Filter test	11
10	Calculation and reporting of test results	12
10.1	Test report	12
10.2	Calculation	12
Annex A (normative) Specification of test fluid for filter test		15
Annex B (informative) Typical filter test report, presentation of test results		17
Annex C (informative) Example filter efficiency calculations		22
Annex D (informative) Summary of the International interlaboratory trial ("round robin") to Bibliography		38