

ISO 12156-1:2023-09 (E)

Diesel fuel - Assessment of lubricity using the high-frequency reciprocating rig (HFRR) - Part 1: Test method

Contents		Page
Foreword.....		iv
Introduction.....		v
1 Scope.....		1
2 Normative references.....		1
3 Terms and definitions.....		1
4 Principle.....		2
5 Reagents and materials.....		2
6 Apparatus.....		3
7 Sampling.....		5
8 Preparation and calibration.....		6
8.1 Preparation of apparatus.....		6
8.1.1 Test plates and balls.....		6
8.1.2 Hardware.....		6
8.2 Calibration and correction.....		6
8.2.1 Temperature.....		6
8.2.2 Frequency.....		6
8.2.3 Stroke length.....		6
8.2.4 Test duration.....		6
8.2.5 Test rig performance.....		6
9 Test procedure.....		7
10 Measurement of wear scar.....		8
11 Test results.....		8
12 Precision.....		8
12.1 General.....		8
12.2 Repeatability, <i>r</i>		8
12.3 Reproducibility, <i>R</i>		9
13 Test report.....		9
Annex A (informative) Measurement of HFRR wear scars.....		10
Bibliography.....		13