ISO 22138:2022-11 (E)

Heavy commercial vehicles - Vehicle stability during tipper body operation - Tilt-table test method

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 1

3 Termsanddefinitions 1

4 Principle 6

5 Variables 7

6 Measuring equipment 8

7 Test conditions 8
7.1 General 8
7.2 Tilt table properties 8
7.3 Ambient conditions 9
7.4 Test vehicle 9
7.4.1 General vehicle condition 9
7.4.2 Loading conditions and suspension 9
7.4.3 Fluids 9

8 Test method for rearward tipping vehicle 9
8.1 Preparation 9
8.1.1 Measure unladen weight 9
8.1.2 Loading of vehicle 9
8.1.3 Measure axle load redistribution due to tipper body pitch angle 10
8.2 Tilt table test procedure 11
8.2.1 Installation of vehicle on tilt table 11
8.2.2 Test execution on tilt table 13

9 Test method for sideways tipping vehicle 15
9.1 Preparation 15
9.1.1 Measure unladen weight 15
9.1.2 Loading of vehicle 15
9.1.3 Measure axle load redistribution due to tipper body roll angle 15
9.2 Tilt table test procedure 15
9.2.1 Installation of vehicle on tilt table 15
9.2.2 Test execution on tilt table 16

10 Data evaluation and presentation of results 16
10.1 General 16
10.2 Characteristic values 17

Annex A (normative) Test report - General data and test conditions 18

Annex B (informative) Example of test reports 19

Annex C (informative) Test results versus real tipper operation 21

Bibliography 22