ISO 10392:2011-03 (E)

Road vehicles - Determination of centre of gravity

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 1

3 Terms and definitions 1

4 Test conditions and preliminary measurements 1
4.1 Operating and other liquids 1
4.2 Preliminary measurements 1

5 Determination of coordinates in horizontal plane 2
5.1 Location of CG longitudinally 2
5.2 Location of CG laterally 2

6 Determination of CG height: Axle lift method 2
6.1 Loading conditions, suspensions and mechanical parts 2
6.2 Measuring procedure 3
6.3 Accuracy of determined parameters 4
6.4 Determination of axle load and lifting angle 4
6.5 Location of CG above ground 4
6.6 Data presentation 5

7 Determination of CG height: Stable pendulum method 5
7.1 General 5
7.2 Loading conditions, vehicle restraints, and mechanical parts 6
7.3 Measuring procedure 6
7.4 Accuracy of determined parameters 7
7.5 Determination of platform properties 7
7.6 Determination of applied torque 7
7.7 Consideration of platform deflection 8
7.8 Location of CG above ground 8
7.9 Data presentation 8

Annex A (informative) Example of test report -- Axle lift method 9

Annex B (informative) Example of test report -- Stable pendulum method 11

Bibliography 13