ISO 4254-1:2013-05 (E)

Agricultural machinery - Safety - Part 1: General requirements

Contents

Page

Foreword ..... **v**

Introduction ..... **vii**

1 Scope **1**

2 Normative references **1**

3 Terms and definitions **3**

4 Safety requirements and/or measures applicable to all machines **5**
4.1 Fundamental principles, design guidance 5
4.2 Protection from moving parts involved in the work 5
4.3 Noise 5
4.4 Vibration 6
4.5 Controls 6
4.6 Automatic mode of operation 7
4.7 Operator stations 7
4.8 Other than operator stations 10
4.9 Folding elements 12
4.10 Strength requirements for guards and barriers 12
4.11 Supports for service and maintenance 12
4.12 Electric equipment 13
4.13 Hydraulic components and fittings 13
4.14 Pneumatic systems 13
4.15 Operating fluids 13
4.16 Manual operation of individual assemblies 14
4.17 Service and handling of machine parts 14
4.18 Electromagnetic compatibility 14
4.19 Emergency stop 14
4.20 Safety-related parts of control systems 15

5 Safety requirements and/or measures — Self-propelled ride-on machines **15**
5.1 Operator station 15
5.2 Moving the machine 18
5.3 Electric 19
5.4 Fuel tank 19
5.5 Hot surfaces 19
5.6 Exhaust gases 19
5.7 Roll- and tip-over 19

6 Safety requirements and/or measures — Mounted, semi-mounted and trailed machines **20**
6.1 Controls 20
6.2 Stability 20
6.3 Hitches for towing 21
6.4 Transmission of mechanical power between self-propelled machines/tractors and recipient machinery 21
6.5 Hydraulic, pneumatic and electrical connections with a self-propelled machine or towing vehicle 22

7 Verification of safety requirements or protective measures **22**

8 Information for use **23**

8.1 General 23

8.2 Operator's manual 23

8.3 Safety and instructional signs 24

8.4 Marking 25

Annex A (informative) **List of significant hazards** **26**

Annex B (normative) **Noise test code (engineering method grade 2)** **30**

Annex C (normative) **Strength tests** **34**

Annex D (informative) **Stability of tractor machine combinations** **36**

Bibliography **38**