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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 19498-2017

Replacing GB/T 19498-2004

**Protective structures on agricultural and forestry tractors --
Static testing method and accepting condition**

农林拖拉机防护装置 静态试验方法和验收技术条件

(English Translation)

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard replaces GB/T 19498-2004 "static test methods and acceptance conditions of agricultural and forestry tractor guards." this standard compared with GB/T 19498-2004, in addition to editorial changes outside the main technical changes are as follows.

--- No weight tractor quality is not less than 800kg adjusted to no weight Tractor quality is not less than 600kg, increase "the quality ratio is not More than 1.75. "(See Chapter 1, 2004 edition, Chapter 1);

--- Normative references added GB/T 6236-2008 and GB/T 6960.7-2007 (see Chapter 2, 2004 edition Chapter 2);

--- Seat reference point adjusted to the pilot seat mark (text);

--- Terms and definitions added "guard, wheel or track center, track, tractor center, wheelbase, the maximum allowable mass, Reference quality, mass ratio "(see Chapter 3);

--- symbol added "ah, av" (see Chapter 5);

--- Increasing the width of the guard member with a curved member example (see Figure 8.2 of Figure 6);

--- Increasing the longitudinal loading test (see 8.5.2) if the guards consist of curved members and no suitable edges exist;

--- Modify the applicability of other types of tractors (see 8.9, 2004 version 4.9,4.10);

--- Remove the low temperature performance test guards (see 2004 version 4.12);

--- Modify the test report samples (see Appendix B, 2004 edition Appendix A).

This standard uses redrafted Law Amendment using OECDCode4.2012 "agricultural and forestry tractor guards strength test method (Static) "(English version).

This standard compared with the OECDCode4.2012 more structural adjustment, listed in

Appendix A of this standard and OECDCode 4.2012 chapter number control list.

This standard and OECDCode4.2012 technical differences and the reasons are as follows.

- Added Chapter 2 "Normative references" to comply with GB/T 1.1 writing requirements (see Chapter 2).
 - Increase the reference standard GB/T 6960.1-2007 and GB/T 6960.7-2007 (see Chapter 3);
 - Modify the use of international standards GB/T 6236 instead of ISO 5353 (see Chapter 3);
 - Equivalent to the international standard GB/T 700-2006, GB/T 3274-2007 instead of ISO 630:1995, ISO 630.
- 1995/Amd1.2003 (see Appendix B).
- Remove the protective device of low temperature performance test, because the low temperature performance of metal materials have been GB/T 229-2007 "metal Charpy pendulum impact test method. "
 - Remove the seat belt fixing performance test, because there is a special seat belt standard.

This standard made the following editorial changes.

- Modify the standard name;
- Added Appendix A (informative) "This standard compared with the OECDCode4.2012 structure changes";
- Increase the unit conversion content.

This standard is proposed by the China Machinery Industry Federation.

This standard by the National Standardization Technical Committee tractor (SAC/TC140) centralized.

This standard drafting unit. China First Tractor Group Co., Ltd., Shandong Agricultural Machinery Research Institute, Xiyuan, Luoyang Vehicle and Power Test all limited company.

1 Scope

This standard specifies the agricultural, forestry tractor guards static test methods and acceptance of technical conditions.

This standard applies to tractors without the weight of not less than 600kg, the mass ratio of not more than 1.75, the minimum rear wheelbase greater than 1150mm wheeled tractor or tracked tractor with pneumatic tires on at least two axles.

This standard does not apply to the following types of tractors. Lawn mowers, vineyard with narrow tractor, limited space for the top of the building Low-profile tractors in objects or orchards, overhead (high clearance) tractors and some special forestry machinery such as skidding tractors.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version applies to this article Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 700-2006 Carbon structural steel (ISO 630:1995, NEQ) Hot rolled plate and strip of carbon structural steel and low alloy structural steel (ISO 13976:2005, ISO 630).

1995, NEQ)

GB/T 6236-2008 Marking marks for agricultural and forestry tractors and mechanical driver's seat (ISO 5353:1995, MOD) Tractor terminology - Part 1. Complete machine Tractor terminology - Part 7. Cab, driver 's seat and coverings

3 Terms and definitions

GB/T 6236-2008, GB/T 6960.1-2007 and GB/T 6960.7-2007 as defined by the following terms and definitions apply in this paper.

Agriculture and Forestry tractor agriculturalandforestrytractors Self-propelled wheeled or tracked vehicles with at least two axles are mainly used for the following basic agricultural and forestry purposes.

--- tow trailer;

--- Carrying, towing or promoting agricultural and forestry machinery or machinery, and may be provided as required when the tractor is in a moving or parked condition Machine powered.

Protective equipment protectivestructure to avoid or reduce the normal use of the vehicle rolling damage to the structure of the driver, the main security cab or frame structure.

The feature is to have a sufficiently large defined space as a body area when the driver sits inside the structural cladding or seated by a series of joints the driver can be protected by the construction of the outer boundary to the space enclosed by any tractor's line of contact with the ground, and keep the tractor in the upside down position when the tractor is tipping over.