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

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**Equipment for vine cultivation and wine making --
Grape-harvesting machinery -- Test methods**

葡萄栽培和葡萄酒酿制设备 葡萄收获机 试验方法

(English Translation)

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Foreword

This standard is identical with ISO 5704. 1980 "viticulture and wine-growing equipment Grape harvesting machine test methods" (English Version).

For ease of use, this standard made the following editorial changes.

--- The "this International Standard" by "this standard";

"," --- With a decimal point instead of a comma as the decimal point, "";

--- Deleted international standards foreword;

--- Appendix I, Appendix L typographical errors revised.

The Standard Appendix A, Appendix B, Appendix C, Appendix D, Appendix E, Appendix F, Appendix G, Appendix H, Appendix I, Appendix J, Appendix K, attached L record is informative appendix.

The standard proposed by China Machinery Industry Federation.

This standard by the National Standardization Technical Committee (SAC/TC201) Agricultural machinery centralized.

This standard was drafted. Xinjiang agricultural Machinery Testing Station, Xinjiang agricultural machinery management Bureau, Suntime International Wine Co., Ltd..

Introduction

Experimental Design Grape harvesting machine is based on the following considerations.

a) main evaluation the following properties.

--- Grape quality and prepared beverage;

--- In the case of vine leaves;

--- Damage may affect subsequent pruning job;

--- Vines or on the ground, "visible" loss;

--- Crushed grape juice loss caused;

b) recording time of performance characteristics;

c) in the different conditions on the ground, a variety of plants - cane combinations work, observation of the machine functioning, reliability and performance.

Viticulture and wine making equipment Grape harvesting machine test methods

1 Scope

This standard specifies the test methods for grape harvesting machine.

This standard applies to the entire process can be completed Grape harvesting machine Grape harvesting operations.

This standard applies to harvest wine and beverages (juice, alcohol, etc.) used in the production of grapes grape harvesting machine.

2 Terms and definitions

The following terms and definitions apply to this standard.

Working time operatingtime 2.1.1 Pure work time actualtime the machine working hours.

2.1.2

Additional time Turn and transfer time.

2.1.3

Wait time to repair idlingtime Waiting for repair and troubleshooting time.

2.1.4

Total operating time overaltime Pure working hours, additional time waiting for the total repair time.

Operating speed speedoftravel Pure work time divided by the length of the machine operation grape rows.

Operating efficiency efficiencyonsite Pure work time divided by the total time job.

The total time required for the job overaltimeperunitofarea harvest per unit area the total harvested area divided by the time the job.

Productivity output

Divided by the total mass of pure grape harvest time.

3 Test principle

By measuring the mass grape harvesting machine test technical characteristics and harvesting grapes. By the method of chemical analysis and sensory analysis, the machine