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Approval Evaluation Test Program for Liquefied Petroleum Gas Vehicles

液化石油气汽车定型试验规程

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Table of Contents

Foreword.....	3
1 Scope	4
2 Normative References.....	4
3 Terms and Definitions.....	5
4 Test Conditions and Suspension Test Conditions.....	5
5 Test Items and Methods	7
6 Test Report.....	9

Approval Evaluation Test Program for Liquefied Petroleum Gas Vehicles

1 Scope

This Standard specifies the terms and definitions, test conditions, suspension test conditions, test items, test methods and test report of approval evaluation test of combustible Liquefied Petroleum Gas (LPG) vehicles.

This Standard is applicable to install special LPG device on the vehicle with type approved, and replace the LPG motor on the dedicated and bi-fuel LPG vehicles; the newly-developed basic LPG vehicles can refer to this Standard to apply.

2 Normative References

The following documents are essential to the application of this document. For the dated documents, only the versions with the dates indicated are applicable to this document; for the undated documents, only the latest version (including all the amendments) are applicable to this document.

GB/T 3730.1-2001 Motor Vehicles and Trailers – Type – Terms and Definitions

GB/T 6323.4 Controllability and Stability Test Procedure for Automobiles – Returnability Test

GB/T 6323.5 Controllability and Stability Test Procedure for Automobiles – Steering Efforts Test Procedure

GB/T 6323.6 Controllability and Stability Test Procedure for Automobiles – Steady Static Circular Test Procedure

GB 7258 Safety Specifications for Power-Driven Vehicles Operating on Roads

GB/T 12534 Motor Vehicles – General Rules of Road Test Method

GB/T 12535 Motor Vehicles – Starting Performance – Test Method

GB/T 12536 Motor Vehicles – Coastdown - Test Method

GB/T 12539 Motor Vehicles – Steep Hill Climbing – Test Method

GB/T 12540 Minimum Turning Circle Diameter, Minimum Turning Clearance Circle Diameter and Out Value Test Method for Motor Vehicles

GB/T 12543 Acceleration Performance Test Method for Motor Vehicles

GB/T 12544 Motor Vehicles – Maximum Speed - Test Method

GB/T 12545.1 Measurement Methods of Fuel Consumption for Automobiles - Part 1: Measurement Methods of Fuel Consumption for Passenger Cars

GB/T 12545.2 Commercial Vehicle – Fuel Consumption Test Method

GB/T 12547 Motor Vehicles – Minimum Stable Speed – Test Method

GB/T 12548 Motor Vehicles Speedometer and Odometer Calibration Method

GB/T 12673 Motor Vehicles – Basic Dimensions – Measuring Method

GB/T 12674 Motor Vehicles – Weight Parameter – Measuring Method

GB/T 12677 Motor Vehicles – Technical Conditions – Inspection Method

GB/T 12678 Reliability Running Test Method for Automobiles

GB/T 15089-2001 Classification of Power-Driven Vehicles and Trailers

GB/T 17895 Natural Gas Vehicle and Liquefied Petroleum Gas Vehicle – Vocabulary

GB/T 18697 Acoustics – Measurement of Noise Inside Motor Vehicles

GB 19159 Automotive Liquefied Petroleum Gas

GB/T 19239 Mounting Requirements of Special Equipment for Liquefied Petroleum Gas Vehicles

QC/T 900-1997 Evaluation Method of Product Quality Inspection for Automobile

3 Terms and Definitions

The terms and definitions stipulated in GB/T 3730.1-2001, GB/T 15089-2001, GB/T 17895 are applicable to this document.

4 Test Conditions and Suspension Test Conditions

4.1 Test conditions

2) Full throttle overtaking acceleration performance test.

d) Maximum degree of climbing shall be tested as per GB/T 12539.

5.6 Fuel economy test

The fuel economy test shall be performed under the various fuel usage states; the M_1 vehicle, M_2 vehicle with maximum mass no greater than 3.5t and N_1 vehicle shall be tested as per GB/T 12545.1; while the M_2 vehicle with maximum mass greater than 3.5t, M_3 vehicle, N_2 vehicle and N_3 vehicle shall be tested as per GB/T 12545.2.

5.7 Noise test

The noise test inside the vehicle at uniform speed and in various fuel usage states shall be performed as per GB/T 18697.

5.8 Braking performance test

It shall be performed as per GB 7258.

5.9 Controllability and stability test

Compared with the original vehicle, the vehicle with axle load exceeding 5% shall be performed the controllability and stability test, while the test items shall include:

- a) Returnability test shall be performed as per GB/T 6323.4;
- b) Steering efforts test shall be performed as per GB/T 6323.5;
- c) Steady static circular test shall be performed as per GB/T 6323.6.

5.10 Starting performance test

The starting performance test with various fuels shall be performed as per GB/T 12535.

5.11 Reliability running test

5.11.1 The reliability running test can be performed either on the vehicle test site or the conventional reliability test road; under the circumstance of meeting the site requirements and LPG supply condition, the reliability running test shall be, in principle, performed on the vehicle test site.

5.11.2 If the reliability running test is carried out on the test site, the mileage distribution can refer to Table 1; if the reliability running test is carried out on the conventional reliability test road, the mileage distribution can refer to Table 2.

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