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Calibration Specification for Flow Analyzer for Short Transient Loaded Mode of Gasoline Vehicles

汽油车简易瞬态工况法用流量分析仪校准规范

(English Translation)

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Introduction

In the present specification JJF 1071-2010 "National Calibration Specifications writing rules", JJF 1001-2011 "Universal Measurement terms and definitions ", JJF 1059-1999" Evaluation and Expression of Uncertainty in Measurement "as the basic norms into series Row developed.

This specification main reference JJG535-2004 "zirconia oxygen analyzer", JJG688-2007 "automobile exhaust gas Body Tester ", JJG1029-2007" Vortex ", GB 18285-2005" ignition engine vehicle exhaust Emission limits and measurement methods (two-speed idle conditions and simple method) "and HJ/T 290-2006" gasoline Jane Easy transient conditions exhaust emission testing equipment technical requirements "compiled.

This specification is the first release.

Gasoline Simple transient conditions with law Traffic Analyzer Calibration Specification

1 Scope

This instruction applies to gasoline Simple transient conditions method using flow analyzer

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(hereinafter referred to as flow analyzer) calibration.

2. References

This specification refers to the following documents.

JJG535-2004 zirconia oxygen analyzer JJG688-2007 automobile exhaust gas tester JJG1029-2007 Vortex Flowmeter GB 18285-2005 ignition engine exhaust emission limits and measurement methods (two-speed idle and BASM) HJ/T 290-2006 Simple transient conditions gasoline exhaust emission testing equipment technical requirements for dated references, only the dated edition applies to this specification; undated reference documents Member, the latest edition (including any amendments) applies to this specification.

3 terminology and units of measurement HJ/T 290-2006 and define the following terms and definitions apply to this specification.

3.1 diluted oxygen concentration dilutemixtureoxygenconcentration all the oxygen concentration of exhaust gas and ambient air mixture diluted test vehicle exhaust.

3.2 standard condition standardtemperatureandpressure Temperature 0 °C, 101.325kPa atmospheric pressure or temperature 20 °C, atmospheric pressure 101.325kPa state.

4 Overview

Traffic Analyzer uses vortex flow measurement principle, the use of zirconia oxygen sensor was diluted concentration measurements.

Traffic Analyzers set mainly by the air hose, gas collection cone tube, air pump, flow sensors, oxygen sensors diluted, dilute Release gas flow pressure sensors, temperature sensors and microprocessors and other components, used to measure the exhaust gas and petrol car ring Traffic throughout the air mixture under standard conditions (hereinafter referred to as the standard flow) and diluted oxygen concentration.

5 Metrological characteristics 5.1 flow and drift Traffic flow in standard state state analyzer measuring fan provided under the (95 ~ 180) L/s range Inside, within 6min flow indication drift generally not exceed ± 4L/s.

5.2 flow indication error

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