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

MH/T 6122-2020

**Aviation Fuel Operation System Cleaning Operation Vehicle
(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 was proposed by the Airport Department of the Civil Aviation Administration of China.

This standard is under the jurisdiction of the China Academy of Civil Aviation Science and Technology.

Drafting organizations of this standard. China National Aviation Fuel Group Co., Ltd., China National Aviation Fuel Group Logistics Co., Ltd., Shanghai Chengfei Aviation Special Design Equipment Co., Ltd.

1 Scope

This standard specifies the terms and definitions, technical requirements, test methods, inspection rules, markings, Instructions for use, packaging, transportation and storage.

This standard applies to the design, manufacture and use of cleaning vehicles for aviation fuel supply systems (hereinafter referred to as cleaning vehicles).

2 Normative references

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

GB 1495 Limits and measurement methods of noise outside the vehicle during acceleration
GB 1589-2016 Cars, trailers and car-train outline dimensions, axle loads and mass limits

GB/T 3766 General rules and safety requirements for hydraulic transmission systems and their components GB/T 5574 Industrial Rubber Sheet GB 7258 Safety technical conditions for motor vehicle operation GB/T 7935 General technical conditions for hydraulic components GB/T 9969 General Rules for the Use of Industrial Products GB/T 12536 Automobile sliding test method GB/T 12543 Automobile acceleration performance test method GB/T 12544 Maximum speed test method for automobiles GB/T 12547 Lowest stable vehicle speed test method GB/T 12673 Measuring method for main dimensions of automobiles GB/T 12674 Determination method of automobile quality (weight) parameters GB/T 12678 Automobile Reliability Driving Test Method GB/T 13306 signs GB 18564.1 Tank vehicles for road transportation of liquid dangerous goods Part 1: Technical requirements for metal atmospheric tanks GB 26410 explosion-proof fan GB 20891 Limits and measurement methods of exhaust pollutants from diesel engines for non-road mobile machinery (China's third and fourth stages) GJB 150.3A Military equipment laboratory environmental test method Part 3: High temperature test GJB 150.4A Military equipment laboratory environmental test method Part 4: Low temperature test GA 494 Fall Protection Equipment for Fire Fighting HG/T 3089 O-type rubber sealing ring material for fuel JB/T 4734 Aluminum welding vessel JB/T 4735.1 Steel welded atmospheric pressure vessel JB/T 5943 General technical conditions for welding parts of construction machinery JB/T 9091 Micro and small cleaning machine JT/T 230 Car static conductive rubber tow belt QC/T 484 Automotive paint coating QC/T 625 coating and chemical treatment layer for automobile

3 Terms and definitions

The following terms and definitions apply to this document.

Cleaning vehicle for aviation fuel supply system Equipped with components such as recovery tank, water supply tank, cleaning system, recovery system and safety operation protection device, it can supply aviation fuel for the airport the system provides special equipment for cleaning operations and safe operations in confined spaces.

4.1 General requirements

4.1.1

Outsourcing parts and outsourcing parts should comply with the relevant standards and have the manufacturer's certificate.

4.1.2

The welding quality should meet the requirements of JB/T 5943.

4.1.3

The paint quality should meet the requirements of QC/T 484.

4.1.4

The coating and chemical treatment layer should meet the requirements of QC/T 625.

4.1.5

Finished products and parts should not have material defects, processing defects and assembly defects that affect reliability, function, appearance, and safety.

4.1.6

The rubber products in contact with fuel should have oil resistance and should meet the requirements of GB/T 5574 and HG/T 3089.

4.1.7

There should be no oil, air or water leakage in the cleaning operation vehicle.

4.1.8

Pipes, gas pipes and wires should be installed neatly and firmly fixed.

4.1.9

The recovery tank and the water supply tank should be completely isolated, and the recovery tank should be larger than the water supply tank.

4.1.10

The cleaning truck should have its own operational data collection and transmission functions.

4.2 Safety requirements

4.2.1

The cleaning truck should be equipped with at least one dry powder fire extinguisher of no less than 8 kg, and it should be easy to take and place.

4.2.2

The bottom of the cleaning truck should be equipped with static conductive floor mopping tape, which should meet the requirements of JT/T 230.

4.2.3

The resistance value between any two points of the metal pipeline of the recovery system and from any point of the sewage tank to the end of the mopping tape should not be greater than 5 ohm. The resistance value at both ends of the recovery hose assembly should not be greater than 1 Mohm.

4.2.4

The cleaning operation vehicle should be equipped with a power take-off interlocking device. When the power take-off is hooked, the cleaning truck should not be able to move,

and the yellow indicator light is on;

When the power take-off is separated, the interlock is released and the indicator light goes out. At the same time, it should have an overriding interlock function and a red indicator light.

4.3 Maneuverability

4.3.1

The overall dimensions of the cleaning truck meet the requirements of Table 1 in GB 1589-2016.

4.3.2

The approach angle and departure angle of the cleaning truck should not be less than 5°, and the longitudinal passing angle should not be less than 3°.

4.3.3

The minimum ground clearance of the cleaning truck should not be less than 127 mm.

4.3.4

The cleaning truck should be able to pass through the passage circle, and the outer diameter of the passage circle should not be greater than 25 m.

4.3.5

The cleaning truck should have a speed limit function and comply with airport driving regulations.

4.3.6

The braking performance of the cleaning truck should meet the relevant regulations of GB 7258.

4.3.7

The minimum stable speed, acceleration performance, and sliding performance of the cleaning vehicle shall meet the design requirements.

4.3.8

In the rated loading state, the axle load of the cleaning truck should not be greater than the maximum design axle load of the axle. Tire carrying capacity should be the axle load of the industrial vehicle should match, the steering axle load should not be less than 20% of the total mass; the drive axle load should not be less than 25% of the total mass.

4.3.9

The cleaning truck should be equipped with at least the lamps listed in Table 1.