Certificate No: LR2563052TA
Issue Date: 16/05/2025
Expiry Date: 15/05/2030

Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

Manufacturer	**Tianjin Tianhai High Pressure Container Co., Ltd.**
Address	No.268 Jinbin Road, Tianjin Free Trade Test Area, (Tianjin Port Free Trade Zone), Tianjin City, 300461, China
Place of Production	Tianjin Tianhai High Pressure Container Co., Ltd. No.268 Jinbin Road, Tianjin Free Trade Test Area, (Tianjin Port Free Trade Zone), Tianjin City, 300461, China
Type	Gas Cylinder
Description	Seamless Steel Gas Cylinder 60 - 180L
Trade Name	TTHP-ISO356-34CrMo-14
Application	For storage of compressed, liquefied gases, except hydrogen embrittlement gases (as per ISO11114-1) exposed to ambient temperatures between -50˚C and +65˚C
Specified Standard	ISO9809-2:2019
Ratings	Water capacity: 60L – 180L Working pressure: 300 bar Test pressure: 450 bar Heat treatment: Quenched and tempered Shape of base: Concave

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Jing Guan

Engineering-Machinery Senior Specialist to Lloyd's Register Classification Society (China) Co., Ltd.

12th Floor, Chong Hing Finance Centre, No. 288
Nanjing West Road, Shanghai, 200003, China

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Filling Medium: Compressed gases or liquefied gases, except hydrogen embrittlement gases (as per ISO11114-1)

Other Conditions

1. The batch tests, tests/examinations on every cylinder are to be carried out in accordance with Clause 10 and Clause 11 of Standard ISO9809-2:2019
2. Each cylinder shall be permanently marked on the shoulder or on a reinforced part of the cylinder or on a permanently fixed collar or neck ring, in accordance with ISO 13769 or the relevant marking regulations of the countries.
3. Grade of steel used for cylinder manufacture shall be compatible with the intended gas service.
4. The burst ratio shall be satisfied by test in accordance with 7.3 of ISO 9809-2: 2019

This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register Classification Society (China) Co., Ltd. of any modification or changes to the equipment in order to obtain a valid Certificate.

The Design Appraisal Document LR2563052TA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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