CERTIFICATE

No. ISK-24-24-032

TÜV Technische Überwachung Hessen GmbH
Industrie Service

we hereby certify that the company

TLT-Turbo

a company of POWERCHINA

TLT Turbo GmbH
Wippershainer Straße 51
D-36251 Bad Hersfeld

as a manufacturer according to

AD 2000-Code HP 0 / DIN EN ISO 3834-2

was audited and accepted.

The scope of this approval and other details are described in our Technical Report No. **E10409323** from 26.04.2024.

Amongst others the following main preconditions are given:

technical equipment for proper and up-to-date manufacturing and testing,
quality procedures which assures a correct working and testing of materials according to the technical rules and standards,
qualified supervisory and inspection personnel

The certificate is valid until june 2027.

Kassel, 24.06.2024

Abnahmeprüfer nach DGRL 2024/68/EU
B.Eng. David Spielberger (SFI)

TÜV Technische Überwachung Hessen GmbH
Industrie Service

Zertifizierer nach DGRL 2014/68/EU
Dipl.-Ing. F. Stidronski (SFI)

TÜV Technische Überwachung Hessen GmbH, Bereich Industrie Service / Geschäftsfeld Anlagensicherheit
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Inspection no.: E10409323

REPORT on the

INSPECTION OF

TLT Turbo GmbH

Wippershainer Straße 51

D-36251 Bad Hersfeld

as producers of pressure equipment
as per AD 2000 Information Sheet HP 0
in combination with DIN EN ISO 3834-2

1 General

In March 2024, ***TLT Turbo GmbH***
applied to be inspected as producers of pressure equipment as per AD 2000 Information Sheet HP 0 in combination with DIN EN ISO 3834-2.

2 Inspection basis and production equipment

The inspection was undertaken on the basis of AD 2000 Information Sheet HP 0 and DIN EN ISO 3834-2. The required site inspection was carried out on **05.06.2024** by industry expert Mr **Spielberger**, of the TÜV Technische Überwachung Hessen GmbH.
As part of this site inspection, the production and testing equipment and welding quality assurance measures described in a questionnaire were shown to the inspector, who was also introduced to the welding and testing personnel.

The production equipment of ***TLT Turbo GmbH*** comprises

- vessels
- fans

and the associated components for pressure equipment and support structures.

The materials worked with for this purpose are predominantly non-alloyed, low-alloy, high-alloy and austenitic steels of materials groups 1.2 – 3.2, 5.1, 10.1, 10.2. For the area of applicability of the AD2000 rules only materials group 8.1 may be worked with.

For welding within the area of applicability of the AD2000 rules, it is

- tungsten inert gas welding (TIG) - 141 -
- metal active gas welding (MAG) - 135, 136

that are the procedures used.

For applications outside of the the AD2000 system of rules, submerged arc welding (UP, 121), manual electrode welding (E-Hand, 111) and stud welding are also suitable procedures.

The intended items to be checked within the scope of applicability of the inspection as per AD 2000 Information Sheet HP 0 are the production of machines, containers and fans at the Any Town works.

3 Result of the inspection

3.1 Production and test equipment

On the basis of the documents presented and the site inspection, the industry expert was able to conclude that the works has sufficient production space and test equipment.

The equipment is kept in good condition through regular checks and maintenance.

There are not any annealing furnaces present for thermal treatment of components.
Any necessary thermal treatment is carried out as needed by external service providers. The only devices allowed to be used are devices that have provisions for documentation of temperature control over time.

No drying or holding facilities for weld filler materials are needed.

There are facilities present for ultrasonic, dye penetrant and magnetic particle testing.
Any radiographic tests that are necessary are carried out by accredited external test laboratories.

There is no equipment present for mechanical/technological or metallographic tests. Where needed, third-party equipment from qualified laboratories/companies is used.

3.2 Production and quality assurance

Valid procedural checks are in place as per AD 2000 Information Sheet HP 2/1 in combination with **DIN EN ISO 15614-1**. Any missing qualification of welding procedures must be proven prior to production starting.

Currently the following valid procedural checks exist:

Welding procedures	Material group as per CR ISO 15608	Dimensions range (Wd. / ∅) (mm)
Listing of the procedural inspections, as per appendix 13 of the questionnaire		

With the existing equipment, the company is in a position to produce components with dimensions up to ∅ 5.5m, length c. 3m, unit weights up to c. 32,000kg.

TLT Turbo GmbH has an adequate number of welders, who have been tested in accordance with DIN EN ISO 9606-1, taking into account the specifications as per AD Information Sheet HP 3.

Qualified testing personnel as per DIN EN ISO 9712 are at the company's disposal / appropriate third-party personnel are used.

For production in accordance with Pressure Equipment Directive 2014/68/EU in combination with AD-2000, the company orders basic materials as per the AD 2000 Series W Information Sheets and TÜV-approved welding filler materials from checked manufacturers.

Accompanying checks all the way from goods-in through to the testing of the finished parts, plus appropriate specifications for the production process, ensure correct working of the materials in adherence with the technical rules and regulations.

3.3 Responsible supervisory personnel

The following have been appointed as staff members responsible for welding supervision as per DIN EN ISO 14731:
Mr **Niko Wiens** (international welding engineer), and as his deputies
Mr **Lutz Waldstein** (international welding specialist) and
Mr **Dominik Keim** (international welding specialist).

The tasks of the welding supervision team at the Bad Hersfeld site are clearly set out in the latest qualification matrix.

The following staff members have been appointed as test supervisors for non-destructive testing:
Mr **Niko Wiens** (UT3, MT3, PT3, VT3, RT2FI qualification), and as his deputies
Mr **Lutz Waldstein** (VT2 qualification).

The transfer of the labelling of materials with the material manufacturer's certifications is done by authorised and duly instructed personnel in accordance with the list of responsible works staff.
A relevant agreement on the re-stamping of materials with acceptance certificate 3.1 and/or factory report or certificate as per EN 10204 has been concluded (equipment no.: 10250923 dated 01.10.2012; current extension through until October 2024).

4 Summary and conclusion

TLT Turbo GmbH has proven that the requirements to be met as per AD 2000 Information Sheet HP 0, Section 3 and as per DIN EN ISO 3834-2 have been fulfilled.
Regular auditing in accordance with ISO 9001 also shows proof of an active quality management system.

Regardless of the inspection conducted, the company must ensure that it adheres to the latest technical rules applicable at any given time to the relevant area of production.

The period of validity of this inspection is 3 years, as long as none of the conditions described above change.

Any changes in the organisation, any changes to the production and testing equipment that could impact on quality and/or any change of responsible supervisory staff must be notified in writing to TÜV Technische Überwachung Hessen GmbH and require the latter's confirmation. In such cases, TÜV Technische Überwachung Hessen GmbH reserves the right to require - depending on scope and significance of the changes - partial or complete repetition of the inspection at the expense of ***Example Company Ltd***.

Kassel, 24 June 2024

Industry Expert
B.Eng. David Spielberger (SFI)

Appendix: 1 Certificate ISK-24-24-032
1 Producer's application and questionnaire dated 19.06.2024