

**The Appendix is an integral part of  
Certificate of Accreditation No. 304/2024 of 27/06/2024**

**Accredited entity according to ČSN EN ISO/IEC 17025:2018:**

**TEDIKO, s.r.o.**  
CAB number 1123, Testing Laboratory of TEDIKO  
Pražská 5487, 430 01 Chomutov

**Testing laboratory locations:**

- |                                                      |                               |
|------------------------------------------------------|-------------------------------|
| 1. <b>Mechanical Testing Laboratory</b>              | Pražská 5487, 430 01 Chomutov |
| 2. <b>Metallographic Testing Laboratory</b>          | Pražská 5487, 430 01 Chomutov |
| 3. <b>Chemistry and Corrosion Testing Laboratory</b> | Pražská 5487, 430 01 Chomutov |
| 4. <b>NDT Testing Laboratory</b>                     | Pražská 5487, 430 01 Chomutov |

*The laboratory provides opinions and interpretations of the test results.*

*Detailed information on activities within the scope of accreditation (determined analytes) is given in the section „Specification of the scope of accreditation“.*

**1. Mechanical Testing Laboratory**

**Tests:**

| Ordinal number <sup>1</sup> | Test procedure / method name           | Test procedure / method identification <sup>2</sup>          | Tested subject                    | Degrees of freedom <sup>3</sup> |
|-----------------------------|----------------------------------------|--------------------------------------------------------------|-----------------------------------|---------------------------------|
| 1                           | Tensile test at room temperature       | ČSN EN ISO 6892-1 except cl. 10.3.2                          | Ferrous and non-ferrous metals    | -                               |
| 2                           | Transverse tensile test                | ČSN EN ISO 4136                                              | Weld joints of metallic materials | -                               |
| 3                           | Bend test of welds                     | ČSN EN ISO 5173                                              | Weld joints of metallic materials | -                               |
| 4                           | Bend test                              | ČSN EN ISO 7438                                              | Ferrous and non-ferrous metals    | -                               |
| 5                           | Flattening test                        | ČSN EN ISO 8492                                              | Ferrous and non-ferrous metals    | -                               |
| 6                           | Drift-expanding test                   | ČSN EN ISO 8493                                              | Ferrous and non-ferrous metals    | -                               |
| 7                           | Fracture test                          | ČSN EN ISO 9017                                              | Ferrous and non-ferrous metals    | -                               |
| 8                           | Impact bend test                       | ČSN EN ISO 9016                                              | Weld joints of metallic materials | -                               |
| 9                           | Charpy impact test                     | ČSN EN ISO 148-1, except KV <sub>8</sub> and KU <sub>8</sub> | Steel                             | -                               |
| 10                          | Brinell hardness test                  | ČSN EN ISO 6506-1                                            | Ferrous and non-ferrous metals    | -                               |
| 11                          | Vickers hardness test HV5 to HV100     | ČSN EN ISO 6507-1                                            | Ferrous and non-ferrous metals    | -                               |
| 12                          | Hardness test of weld joints           | ČSN EN ISO 9015-1                                            | Ferrous and non-ferrous metals    | -                               |
| 13                          | Rockwell hardness test, scales A, B, C | ČSN EN ISO 6508-1                                            | Ferrous and non-ferrous metals    | -                               |

<sup>1</sup> asterisk at the ordinal number identifies the tests, which the laboratory is qualified to carry out outside the permanent laboratory premises

<sup>2</sup> if the document identifying the test procedure is dated, only these specific procedures are used. If the document identifying the test procedure is not dated, the latest valid edition of the specified procedure is used (including any changes)

<sup>3</sup> the laboratory does not apply a flexible approach to the scope of accreditation



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**2. Metallographic Testing Laboratory**

**Tests:**

| Ordinal number <sup>1</sup> | Test procedure / method name                                                  | Test procedure / method identification <sup>2</sup>        | Tested subject     | Degrees of freedom <sup>3</sup> |
|-----------------------------|-------------------------------------------------------------------------------|------------------------------------------------------------|--------------------|---------------------------------|
| 1                           | Determination of apparent grain size                                          | ČSN EN ISO 643, cl. 7.1.2                                  | Metallic materials | -                               |
| 2                           | Determination of depth of decarburization by metallographic method            | ČSN EN ISO 3887, cl. 4.2                                   | Steel              | -                               |
| 3                           | Metallographic evaluation of the structure                                    | ČSN EN ISO 945-1                                           | Cast iron          | -                               |
| 4                           | Vickers hardness test, HV less than 0.2                                       | ČSN EN ISO 6507-1                                          | Metallic materials | -                               |
| 5*                          | Evaluation of microstructure of metallographic sections                       | LAB-MET-PP001<br>(ASTM E407;<br>ASTM E1351;<br>ASTM E1558) | Metallic materials | -                               |
| 6                           | Destructive tests on welds – macroscopic and microscopic examination of welds | ČSN EN ISO 17639                                           | Steel              | -                               |

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**3. Chemistry and Corrosion Testing Laboratory**

**Tests:**

| Ordinal number <sup>1</sup> | Test procedure / method name       | Test procedure / method identification <sup>2</sup>                     | Tested subject     | Degrees of freedom <sup>3</sup> |
|-----------------------------|------------------------------------|-------------------------------------------------------------------------|--------------------|---------------------------------|
| 1                           | Analysis of elements by AES method | LAB-CHA-PP002<br>(Instruction Manual ARC-MET 8000)                      | Metallic materials | -                               |
| 2*                          | Analysis of elements by AES method | LAB-CHA-PP003<br>(Instruction Manual PMI Master Smart)                  | Metallic materials | -                               |
| 3*                          | Analysis of elements by XRF method | LAB-CHA-PP001<br>(User manual for manual ED-XRF spectrometer VANTA VCR) | Metallic materials | -                               |

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**Specification of the scope of accreditation:**

| Ordinal test number | Detailed information on activities within the scope of accreditation (determined analytes) |
|---------------------|--------------------------------------------------------------------------------------------|
| 1                   | Elements: C, Cr, Mn, Mo, Ni, Si, V                                                         |
| 2                   | Elements: C, Cr, Mn, Mo, Ni, V                                                             |
| 3                   | Elements: Cr, Mn, Mo, Ni, Si, V                                                            |



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**4. NDT Testing Laboratory**

**Tests:**

| Ordinal number <sup>1</sup> | Test procedure / method name                     | Test procedure / method identification <sup>2</sup>                                                                                                                                                                                                                    | Tested subject                                    | Degrees of freedom <sup>3</sup> |
|-----------------------------|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|---------------------------------|
| 1*                          | Radiographic test                                | ČSN EN 12681-1;<br>ČSN EN ISO 5579;<br>ČSN EN ISO 17636-1                                                                                                                                                                                                              | Materials, parts, machines and equipment          | -                               |
| 2*                          | Ultrasonic test, including thickness measurement | ČSN EN 10160;<br>ČSN EN 10228-3;<br>ČSN EN 10228-4;<br>ČSN EN 10307;<br>ČSN EN 10308;<br>ČSN EN 12680-2;<br>ČSN EN 12680-3;<br>ČSN ISO 9764;<br>ČSN ISO 17577;<br>ČSN EN ISO 10863;<br>ČSN EN ISO 16809;<br>ČSN EN ISO 16810;<br>ČSN EN ISO 16828;<br>ČSN EN ISO 17640 | Materials, parts, machines and equipment          | -                               |
| 3*                          | Magnetic particle test                           | ČSN EN 1369;<br>ČSN EN 10228-1;<br>ČSN EN ISO 9934-1;<br>ČSN EN ISO 17638                                                                                                                                                                                              | Magnetic materials, parts, machines and equipment | -                               |
| 4*                          | Penetrant test                                   | ČSN EN 1371-1;<br>ČSN EN 1371-2;<br>ČSN EN 10228-2;<br>ČSN ISO 9916;<br>ČSN EN ISO 3452-1                                                                                                                                                                              | Materials, parts, machines and equipment          | -                               |
| 5*                          | Visual test                                      | ČSN EN 1370;<br>ČSN EN 13018;<br>ČSN EN ISO 17637                                                                                                                                                                                                                      | Materials, parts, machines and equipment          | -                               |
| 6*                          | Leakage test                                     | ČSN EN 1593;<br>ČSN EN 1779;<br>ČSN EN 13184;<br>ČSN EN ISO 20485                                                                                                                                                                                                      | Materials, parts, machines and equipment          | -                               |



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| Ordinal number <sup>1</sup> | Test procedure / method name | Test procedure / method identification <sup>2</sup>                                                                                                                                                                                                                                                              | Tested subject                                                 | Degrees of freedom <sup>3</sup> |
|-----------------------------|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|---------------------------------|
| 7*                          | Eddy current test            | NDT-ET-PP-015<br>(ČSN EN ISO 15549;<br>ASTM E543;<br>ASME CODE V, chap. 8);<br>NDT-MFL-PP-001<br>(ASTM E570);<br>NDT-RFT-PP-002<br>(ASTM E2096;<br>ASME CODE V, chap. 17;<br>Inspection Procedure of Ferrous<br>Tubing using the MS 5700 and<br>5800 RFT instrument, Rev. B);<br>ČSN EN ISO 15549;<br>PN 01 5059 | Metallic materials,<br>components of machines<br>and equipment | -                               |

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**Explanatory notes and abbreviations:**

|            |                                                                                    |
|------------|------------------------------------------------------------------------------------|
| AES        | – Atomic Emission Spectrometer                                                     |
| ASME CODE  | – American Technical Standard                                                      |
| ASTM       | – American Technical Standard                                                      |
| ET         | – Eddy Current Testing                                                             |
| LAB-CHA-PP | – Internal Methodical Test Procedure developed by the Testing Laboratory of TEDIKO |
| LAB-MET-PP | – Internal Methodical Test Procedure developed by the Testing Laboratory of TEDIKO |
| MFL        | – Magnetic Flux Leakage                                                            |
| NDT-ET-PP  | – Internal Methodical Test Procedure developed by the Testing Laboratory of TEDIKO |
| NDT-MFL-PP | – Internal Methodical Test Procedure developed by the Testing Laboratory of TEDIKO |
| NDT-RFT-PP | – Internal Methodical Test Procedure developed by the Testing Laboratory of TEDIKO |
| PN         | – Company Standard                                                                 |
| RFT        | – Remote Field Eddy Current Testing                                                |
| XRF        | – X-ray fluorescence spectrometry                                                  |

*"This document is an appendix to the certificate of accreditation. In case of any discrepancies between the English and Czech versions, the Czech version shall prevail, both for the certificate appendix and the certificate itself."*

