EA MLA Signatory
Český institut pro akreditaci, o.p.s.
(Czech Accreditation Institute)
Hájkova 2747/22, Žižkov, 130 00 Praha 3

issues

according to section 16 of Act No. 22/1997 Coll., on technical requirements for products and on changes and amendments to some Acts, as amended

CERTIFICATE OF ACCREDITATION

No. **126/2026**

VÍTKOVICE TESTING CENTER s. r. o.
with registered office Pohraniční 584/142, Hulváky, 703 00 Ostrava
Company Registration No. 25870556

for the Testing Laboratory No. **1036**
Testing Laboratories and Laboratories

Scope of accreditation:

Testing of the chemical composition of metallic, refractory, and oxide materials, ferroalloys, and solid fuels, metallographic testing, testing of mechanical properties, and non-destructive testing of metallic materials, including welded joints to the extent as specified in the appendix to this Certificate.

This Certificate of Accreditation is a proof of accreditation issued on the basis of assessment of fulfillment of the accreditation criteria in accordance with

ČSN EN ISO/IEC 17025:2018

In its activities performed within the scope and for the period of validity of this Certificate, the abovementioned Accredited Body is entitled to refer to this Certificate, provided that the accreditation is not suspended and the Accredited Body meets the specified accreditation requirements in accordance with the relevant regulations applicable to the activity of an accredited conformity assessment body.

This Certificate of Accreditation replaces, to the full extent, Certificate No.: 77/2025 of 18/02/2025, and/or any administrative acts building upon it.

The Certificate of Accreditation is valid until: **16/03/2031**

Prague: 16/03/2026

Český institut pro akreditaci, o.p.s. «CAI»

Signed in the Czech original:
Zdeňka Drdová on 16/03/2026

Jan Velíšek
Director of the Department
of Testing and Calibration Laboratories
Czech Accreditation Institute

This translation of the Czech original has been issued by: Eliška Frycová

The Appendix is an integral part of
Certificate of Accreditation No. 126/2026 of 16/03/2026

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

VÍTKOVICE TESTING CENTER s.r.o.
CAB number 1036, Testing Laboratories and Laboratories
Pohraniční 584/142, Hulváky, 703 00 Ostrava

Testing laboratory locations:

1. **Physical-chemical Laboratory** Pohraniční 584/142, Hulváky, 703 00 Ostrava
2. **Metallographic Testing Laboratory** Pohraniční 584/142, Hulváky, 703 00 Ostrava
3. **Mechanical Properties Testing Laboratory** Pohraniční 584/142, Hulváky, 703 00 Ostrava
4. **Non-Destructive Testing** Pohraniční 584/142, Hulváky, 703 00 Ostrava
5. **Testing Machining Facility** (does not perform tests) Pohraniční 584/142, Hulváky, 703 00 Ostrava

The laboratory applies a flexible approach to the scope of accreditation.
The current list of activities carried out within the flexible scope is available at the Director of Quality and Management Systems in the form of the "List of activities within the flexible scope of accreditation".
The laboratory provides opinions and interpretations of the test results.
Detailed information on activities within the scope of accreditation (tested subject) is given in the section „Specification of the scope of accreditation".

1. **Physical-chemical Laboratory**

Tests:

Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
1	Determination of C, Mn, Si, P, S, Cu, Ni, Cr, Mo, V, Ti, W, Nb, Al $_{total}$, Co, Zr, B, As, Sn, Pb, Sb, Ca, Zn, Mg by optical emission spectrometry method, CEV by calculation from measured values	QD-VTC.10 OES-0001 (ČSN EN 10025-1; ASTM E415; ASTM E1086; ASTM E1999; SPECTRO manuals)	Technical iron	A, B, D
2*	Determination of Mn, Si, P, Cu, Ni, Cr, Mo, V, Ti, W, Nb by X-ray fluorescence spectrometry	QD-VTC.10 RTG-0016 (Thermo manual; ELVATECH operating manual)	Technical iron	A, B, D
3	Determination of C, S by an IR analyzer after combustion in induction furnace	QI-VTC.10 GEN-0002 (ASTM E1019; LECO manual)	Technical iron	-
4	Determination of N by an analyzer with thermal conductivity detection after melting in inert gas	QI-VTC.10 GEN-0003 (ČSN EN ISO 10720; ASTM E1019; LECO manual)	Technical iron	-

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
5	Determination of O by an analyzer with IR detection after melting in inert gas	QI-VTC.10 GEN-0004 (ČSN EN 10276-2; ASTM E1019)	Technical iron	-
6	Determination of H by an analyzer with thermal conductivity detection after heating in inert gas	QI-VTC.10 GEN-0010 (LECO 203-601-136; Application report, LECO manual)	Technical iron	
7	Determination of P by titration	QD-VTC.10 CHEM-0001, cl. 7.3, 7.4, 7.5 (ASTM E350, cl. 172 to 179; ASTM E351, cl. 160 to 167)	Technical iron	-
8	Determination of Cr by titration	QD-VTC.10 CHEM-0001, cl. 7.7 (ČSN EN ISO 4937)	Technical iron	-
9	Determination of V by titration	QD-VTC.10 CHEM-0001, cl. 7.7 (ČSN EN ISO 4947)	Technical iron	-
10	Determination of Ni by photometry	QD-VTC.10 CHEM-0001, cl. 7.6 (ČSN 42 0516:1981)	Technical iron	-
11	Determination of Mo by photometry	QD-VTC.10 CHEM-0001, cl. 7.8 (ČSN ISO 4941:1993)	Technical iron	-
12	Determination of Si by gravimetry	QD-VTC.10 CHEM-0001, cl. 7.2 (ČSN EN ISO 439; ASTM E350, cl. 46-52)	Technical iron	-
13	Determination of Cu, Ni, Cr, Al_{total}, Mn, Co, V, Pb, Zn by flame atomic absorption spectrometry method	QD-VTC.10 AAS-0001 (ČSN 42 0521 ; ČSN EN ISO 4943; ČSN EN 10136; ČSN EN 10188; ČSN EN ISO 9658; ČSN EN ISO 10700; ČSN EN ISO 9647; ČSN EN 10181)	Technical iron	A, B, D

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
14	Determination of C, S by an analyzer with IR detection after combustion in induction furnace and CO, CO_2, SO_2, SO_3 by calculation from measured values	QD-VTC.10 LECO CS- 0002 (LECO 209-141-001 Application report)	Refractory materials, oxide materials	-
15	Determination of MgO by titration and Mg by calculation from measured values	QD-VTC.10 CHEM-0010, cl. 6.15 (ČSN 72 0114-1)	Refractory materials, oxide materials	-
16	Determination of CaO by titration and Ca by calculation from measured values	QD-VTC.10 CHEM-0010, cl. 6.11 (ČSN 72 0113-1)	Refractory materials, oxide materials	-
17	Determination of Fe_{total}, Fe_{metal}, FeO by titration and Fe_2O_3 by calculation from measured values	QD-VTC.10 CHEM-0010, cl. 6.5, 6.4, 6.7, 6.6 (ČSN 72 2041-10:1992)	Refractory materials, oxide materials	-
18	Determination of Fe_2O_3 by photometry and Fe_{total} by calculation from measured values	QD-VTC.10 CHEM-0010, cl. 6.3 (ČSN 72 0110-5)	Refractory materials, oxide materials	-
19	Determination of SiO_2 by gravimetry and Si by calculation from measured values	QD-VTC.10 CHEM-0010, cl. 6.2 (ČSN 72 0105-1)	Refractory materials, oxide materials	-
20	Determination of the loss on drying and moisture content by gravimetry	QD-VTC.10 CHEM-0010, cl. 6.28 (ČSN 72 0102; ČSN ISO 3087)	Refractory materials, oxide materials	-
21	Determination of the loss on ignition by gravimetry	QD-VTC.10 CHEM-0010, cl. 6.27 (ČSN EN ISO 26845)	Refractory materials, oxide materials	-
22	Determination of C, S by an analyzer with IR detection after combustion in induction furnace	QD-VTC.10 LECO CS -0001 (LECO 209-141-001 Application report)	Ferrochromium, ferromanganese, ferrosilicon, ferrovanadium, ferromolybdenum, ferrosilicomanganese	-

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
23	Determination of Cr by titration	QD-VTC.10 CHEM-0011, cl. 6.6.1 (ČSN 42 0550-2)	Ferrochromium	-
24	Determination of P by titration	QD-VTC.10 CHEM-0011, cl. 6.3.3, (ČSN 42 0513:1978)	Ferromanganese	-
25	Determination of Mn by titration	QD-VTC.10 CHEM-0011, cl. 6.3.1, cl. 6.4.2 (ČSN 42 0511)	Ferromanganese, ferrosilicomanganese	-
26	Determination of V by titration	QD-VTC.10 CHEM-0011, cl. 6.9.1 (ČSN 42 0553-1)	Ferrovanadium	-
27	Determination of Si by gravimetry	QD-VTC.10 CHEM-0011, cl. 6.6.2, 6.3.2, 6.1.1, 6.9.2, 6.8.2, 6.4.1 (ČSN 42 0550-5; ČSN 42 0551-2; ČSN 42 0552-1; ČSN 42 0553-3; ČSN 42 0554-4; ČSN 42 0557-2)	Ferrochromium, ferromanganese, ferrosilicon, ferrovanadium, ferromolybdenum, ferrosilicomanganese	-
28	Determination of Mo by gravimetry	QD-VTC.10 CHEM-0011, cl. 6.8.1 (ČSN 42 0554-2)	Ferromolybdenum	-
29	Determination of Si by gravimetry	QD-VTC.10 CHEM-0013, cl. 6.2 (ČSN ISO 797)	Aluminium, aluminium alloys	-
30	Determination of Mg, Cu, Zn, Pb, Sn, Cr, Mn, Ni, Fe by flame atomic absorption spectrometry method	QD-VTC.10 AAS-0005 (ČSN 42 0670-14:1982; ČSN 42 0672-1:1989; ČSN 42 0672-2:1989; ČSN ISO 3256; ČSN ISO 3980; ČSN ISO 5194; ČSN ISO 4192; ČSN ISO 4193; ČSN ISO 3981)	Aluminium, aluminium alloys	A, B, D

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
31	Determination of total water and water in analytical sample by gravimetry	QD-VTC.10 CHEM-0012, cl. 7.1.6, cl. 7.1.7 (ČSN 44 1377)	Solid fuels	-
32	Determination of ash content by gravimetry	QD-VTC.10 CHEM-0012, cl. 7.1.8 (ČSN ISO 1171)	Solid fuels	-
33	Determination of volatile combustible matter by gravimetry	QD-VTC.10 CHEM-0012, cl. 7.1.1 (ČSN ISO 562)	Solid fuels	-
34	Determination of gross calorific value by calorimetry	QD-VTC.10 CHEM-0012, cl. 7.1.3 (ČSN ISO 1928; LECO 200-519 manual)	Solid fuels	-
35	Determination of S by titration after combustion in Mars oven up to do 1,000 °C	QD-VTC.10 CHEM-0012, cl. 7.1.2 (ČSN ISO 351:2001)	Solid fuels	-

[1] asterisk at the ordinal number identifies the tests, which the laboratory is qualified to carry out outside the permanent laboratory premises

[2] 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)

[3] degrees of freedom: A – Flexibility concerning materials/products (subject of the test), B – Flexibility concerning components/parameters/characteristics, C – Flexibility concerning the performance of the method, D – Flexibility concerning the method

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Specification of the scope of accreditation:

Ordinal test number	Detailed information on activities within the scope of accreditation (subject of testing)
1 to 13	Materials with iron matrix, e.g. steel, cast iron, pig iron
14 to 21	High-alumina materials (e.g., mullite, corundum, bauxite), aluminosilicate materials (e.g., shale, clay, fireclay), siliceous materials, iron-matrix charge materials (e.g., iron ores and pellets, iron concentrates, ore mixtures, agglomerates), slags, slag-forming additives (e.g., lime, limestone, dolomite, magnesite)
31 to 35	E.g. black coal, anthracite, coke, solid biofuels, solid alternative fuels and other solid carbon substances, e.g. electrode material

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2. **Metallographic Testing Laboratory**

Tests:

Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
1	Testing of microstructure	QI-VTC.20 GEN-0020; ČSN 03 8137; ČSN 42 0015; ČSN 42 1240; ČSN 42 0461:1975; ČSN 42 0469; ČSN EN ISO 945-1; ČSN EN ISO 17639; ČSN EN ISO 15614-2; ČSN EN ISO 15614-7:2007; ČSN EN ISO 5832-3; ISO 20160; ASTM A247; ASTM E562; ASTM E1268; ASTM A923 method A; GOST 8233; GOST 5640; GOST 3443; VN 435230	Metallic materials	-
2	Determination of grain size	ČSN EN ISO 643; ČSN EN ISO 2624; DIN 50601:1985; ASTM E1382; ASTM E112; GOST 5639	Metallic materials	-
3	Determination of the content of non-metallic inclusions	ČSN ISO 4967; ASTM E45, cl. 12, method A, cl. 15, method D; DIN 50 602:1985, cl. 8.2.1, method M, cl. 8.2.2, method K; GOST 1778, cl. 6.1, method Š1, Š4	Metallic materials	-

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
4	Determination of depth of layers	ČSN EN ISO 2639:2003; ČSN EN ISO 1463; ČSN EN ISO 3887; ČSN EN ISO 6507-1; ČSN EN ISO 18203; ASTM E1077; DIN 50190-3:1979	Metallic materials	-
5	Microhardness measurement	ČSN EN ISO 14271; ČSN EN ISO 9015-2; ČSN EN ISO 6507-1; ASTM E384	Metallic materials	-
6*	Testing of microstructure using replicas	ISO 3057	Metallic materials	-
7*	Testing of macrostructure by sulphur prints	ISO 4968; ASTM E1180; DBS 918 002; UIC 810-1; UIC 811-1	Metallic materials	-
8*	Testing of macrostructure	ČSN 42 0467; ISO 4969; ASTM E340; ASTM E381; GOST 10243; DBS 918 002	Metallic materials	-
9	Testing of macrostructure of welded joints	ČSN 07 0622; ČSN EN ISO 15614-1; ČSN EN ISO 15614-2; ČSN EN ISO 15614-7; ČSN EN ISO 15614-8 ČSN EN ISO 15614-12; ČSN EN ISO 14555; ČSN EN 764-4; ČSN EN ISO 17639; ČSN EN 12797; ČSN EN 12952-5; ČSN EN 12952-6; ASME Code Sect. IX, QW - 183, 184, 192, 193, 196, 197	Metallic materials	-

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
10	Testing of resistance to intergranular corrosion	ČSN EN ISO 3651-2, method A; ASTM A262, method E; GOST 6032-75, method AM, AMU; GOST 6032-84, method AM, AMU; GOST 6032-89, method AM, AMU; GOST 6032 – 2003, method AMU; GOST 6032, method AM, AMU	Metallic materials	-
11	Fracture evaluation	SEP 1584; TPZ-M22-71	Metallic materials	-
12	Testing of resistance to hydrogen-induced cracking (HIC)	ČSN EN 10229; NACE TM 0284	Metallic materials	-
13	Testing of resistance of steel subjected to tensile or bending stresses to cracking in hydrogen sulphide environment	NACE TM 0177; NACE TM 0177-96	Metallic materials	-
14	Testing of corrosion resistance	ASTM G28, method A; ASTM G48, method A; ASTM A923, method C	Metallic materials	-

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3. **Mechanical Properties Testing Laboratory**

Tests:

Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
1	Tensile test at ambient temperature	QI-VTC.30 GEN-0004 (ČSN EN ISO 6892-1; ASTM A370; ASTM E8/E8M; ASME Code Sect. II, SA 370; GOST 1497; GOST 10006; ČSN EN 10164)	Metallic materials	-
2	Tensile test at elevated temperature	QI-VTC.30 GEN-0004 (ČSN EN ISO 6892-2; ASTM E21; GOST 9651)	Metallic materials	-
3	Impact bend test at ambient temperature	QI-VTC.30 EVR-0005 (ČSN EN ISO 9016; ČSN EN ISO 148-1; GOST 9454); QI-VTC.30 ASME-0005 (ASTM E23; ASTM A370)	Metallic materials	-
4	Weld bending test	QI-VTC.30 GEN-0013 (SEP 1390)	Metallic materials	-
5	Impact bend test at reduced temperatures	QI-VTC.30 EVR-0005 (ČSN EN ISO 9016; ČSN EN ISO 148-1; GOST 9454); QI-VTC.30 ASME-0005 (ASTM E23; ASTM A370)	Metallic materials	-
6	Impact bend test at elevated temperature	QI-VTC.30 EVR-0005 (ČSN EN ISO 9016; ČSN EN ISO 148-1; GOST 9454); QI-VTC.30 ASME-0005 (ASTM E23; ASTM A370)	Metallic materials	-

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
7	Test of steel liability to ageing following cold plastic deformation	QI-VTC.30 EVR-0005 (ČSN 42 0385; GOST 7268)	Metallic materials	-
8	Hardness test - Brinell	QI-VTC.30 GEN-0006 (ČSN EN ISO 6506-1; ASTM A370; ASTM E10)	Metallic materials	-
9	Hardness test - Rockwell	QI-VTC.30 GEN-0006 (ČSN EN ISO 6508-1; ASTM A370; ASTM E18)	Metallic materials	-
10	Hardness test - Vickers	QI-VTC.30 GEN-0006 (ČSN EN ISO 6507-1; ČSN EN 23878; ČSN EN ISO 9015-1; ASTM E92)	Metallic materials	-
11	Bend test	QI-VTC.30 GEN-0007 (ČSN EN ISO 7438; ČSN EN ISO 5173; ASTM A370; ASME Code Sect. IX, QW-160; GOST 14019; GOST 6996)	Metallic materials	-
12	Tensile test of butt weld joints	QI-VTC.30 GEN-0004 (ČSN EN ISO 5178; ČSN EN ISO 4136; ASME Code Sect. IX, QW-150; GOST 6996)	Metallic materials	-
13	Shear test	QI-VTC.30 GEN-0018 (ČSN 42 0342; DIN 50141:1982)	Metallic materials	-
14	Tube ring tensile test	QI-VTC.30 GEN-0015 (ČSN EN ISO 8496)	Metallic materials	-
15	Tube flattening test	QI-VTC.30 GEN-0016 (ČSN EN ISO 8492; ASTM A530/A530M)	Metallic materials	-

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
16	Tube ring-expanding test	QI-VTC.30 GEN-0017 (ČSN EN ISO 8495)	Metallic materials	-
17	Drop weight tear test – determination of percentage of ductile fracture (DWTT)	QI-VTC.30 GEN-0003 (ČSN EN 10274; ASTM E436; API RP 5L3; GOST 30456)	Metallic materials	-

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4. **Non-Destructive Testing**

Tests:

Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
1*	Radiographic testing	QP-ASME VTC-1101 (ASME Code Sect.V Art. 2, 22); ČSN EN ISO 5579; ČSN EN ISO 17636-1; ČSN EN 12681-1; ČSN EN ISO 10893-6; ASTM E94; ASTM E1030; ASTM E1032	Metallic materials	-
2*	Ultrasonic testing	QP-ASME VTC-1301 (ASME Code Sect. V Art. 4, 23); ČSN 01 5042; ČSN 01 5043; ČSN EN 10160; ČSN EN 10228-3; ČSN EN 10228-4; ČSN EN 10306; ČSN EN 10307; ČSN EN 10308; ČSN EN 12680-1; ČSN EN 12680-2; ČSN EN 12680-3; ČSN EN ISO 22825; ČSN EN ISO 17640; ČSN EN ISO 17405; ISO 5948; ASTM A388/A388M; ASTM A435/A435M; ASTM A577/A577M; ASTM A578/A578M; ASTM A609/A609M; ASTM A745/A745M; AD 2000 MERKBLATT, HP 5/3; AD 2000 MERKBLATT, HP 5/3, annex 1	Metallic materials	-

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
3*	Magnetic particle testing	QP-ASME VTC-1201 (ASME Code Sect. V Art. 7, 25); ČSN EN 1369; ČSN EN 10228-1; ČSN EN ISO 9934-1; ČSN EN ISO 17638; ČSN EN ISO 10893-5; ISO 6933; ASTM E709; AD 2000 MERKBLATT, HP 5/3; AD 2000 MERKBLATT, HP 5/3, annex 1	Metallic materials	-
4*	Liquid penetrant testing	QP-ASME VTC-1401 (ASME Code Sect. V Art. 6, 24); ČSN EN ISO 3452-1; ČSN EN ISO 3452-5; ČSN EN ISO 3452-6; ČSN EN 1371-1; ČSN EN 1371-2; ČSN EN 10228-2; ČSN EN ISO 10893-4; ČSN ISO 9916; ASTM E165/E165M; AD 2000 MERKBLATT, HP 5/3; AD 2000 MERKBLATT, HP 5/3, annex 1	Metallic materials	-

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Explanations:

AD MERKBLATT	German Technical Standards and Regulations
ASME	American Society of Mechanical Engineers
ASTM	American Society for Testing and Materials
BPVC	Boiler & Pressure Vessel Code
CEV	Carbon Equivalent
DBS	Technical Standard of Deutsche Bahn
DWTT	Drop Weight Tear Test
HIC	Hydrogen-Induced Cracking
IR	Infrared
NACE	National Association of Corrosion Engineers
QD VTC	Internal Directive of ATL management system
QI VTC	Internal Instruction of ATL management system
QP ASME	Procedure for the assurance of quality within the ASME prepared by ATL
QP-VTC	Internal Instruction of the AZL management system
QW	ASME BPVC.IX standard clause dealing with welding
SEP	Stahl Eisen Prüfungen (German standard for steel testing)
TPZ	Test Specification of the Ministry of National Defence
UIC	UIC - Union Internationale des Chemins de fer
VN	In-house (or national) technical standard
VTC	VÍTKOVICE TESTING CENTER s. r. o.