



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. 383/2026

ORGREZ, a.s.
with registered office Hudcova 321/76, Medlánky, 612 00 Brno
Company Registration No. 46900829

for the Testing Laboratory No. **1179.2**
Testing Laboratory E01

Scope of accreditation:

Diagnostic measurement of electrical rotating machines (generators, motors), transformers, diagnostics of electrically insulating liquids, gases and the state of electrically insulating materials, chromatography of insulating liquids and determination of the content of PCB compounds 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.: 509/2025 of 16/10/2025, and/or any administrative acts building upon it.

The Certificate of Accreditation is valid until: **19/04/2028**

Prague: 11/08/2026



Signed in the Czech original:
Zdeňka Drdová on 11/08/2026

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

This translation of the Czech original has been issued by: Andrea Muzikářová

**The Appendix is an integral part of
Certificate of Accreditation No. 383/2026 of 11/08/2026**

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

ORGREZ, a.s.

CAB number 1179.2, Testing Laboratory E01
Třanovského 622/11, 163 00 Praha 6 – Řepy

Testing laboratory locations:

- | | |
|--|---|
| 1. Diagnostics and HV Testing Department (Workplace Prague) | Třanovského 622/11, 163 00 Praha 6 – Řepy |
| 2. Oil Laboratory (Workplace Prague) | Třanovského 622/11, 163 00 Praha 6 – Řepy |
| 3. Diagnostics and HV Testing Department (Workplace Brno) | Hudcova 321/76, 612 00 Brno – Medlánky |
| 4. Oil Laboratory (Workplace Brno) | Hudcova 487/76a, 612 00 Brno – Medlánky |

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

Tests:

Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
1* ^{1,3}	Measurement of insulation resistance	SOP 1-01-20/72 (TSE_RIZ_02r06; TSE_RIZ_03r06; ČEZ_ME_0983r00, Annex B cl. 3.4)	Rotating machine, power transformer, instrument transformer	-
2* ^{1,3}	Measurement of capacity and dissipation factor	SOP 1-02-21/72 (TSE_TGC_05r06; ČEZ_ME_0983r00, Annex B, C cl. 1.4)	Rotating machine, power transformer, instrument transformer, bushing	-
3* ¹	Partial discharge measurement	SOP 1-04/72 (TSE_VYB_06r06)	Rotating machine	-
4* ^{1,3}	Test by applied voltage	SOP 1-06/72 (TSE_UZ_09r06; TSE_UZ_10r06; TSE_UZ_11r06)	Rotating machine	-
5* ^{1,3}	Measurement of winding resistance by direct current	SOP 1-22/72 (ČEZ_ME_0983r00, Annex B cl. 2.4)	Power transformer	-
6* ¹	Determination of SF6 content by acoustic method	SOP 1-60/72 (ČSN EN IEC 60480 ed. 2; ČSN EN IEC 60376 ed. 2)	Insulating gas	-
7* ¹	Measurement of SF6 dew point by acoustic method	SOP 1-61/72 (ČSN EN IEC 60480 ed. 2; ČSN EN IEC 60376 ed. 2)	Insulating gas	-
8* ³	Measuring power losses using the short-circuit and no-load voltage determination method	SOP 3-01/72 (ČSN EN 60076-1)	Power transformer	-

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Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
9 ^{2,4}	Determination of water – by Karl Fischer automatic coulometric titration (Q _v) ⁺	SOP 2-10/72 (ČSN EN 60814; ZM-03; MP 04-2012)	Insulating liquid	-
10 ^{2,4}	Determination of the breakdown voltage ≤ 60 kV at power frequency (U _p) ⁺	SOP 2-11/72 (ČSN EN 60156; ZM-04)	Insulating liquid	-
11 ^{2,4}	Determination of dissipation factor (tg δ) ⁺ , relative permittivity (ε _r) ⁺ and d.c. resistivity (ρ) ⁺	SOP 2-12/72 (ČSN EN 60247; ZM-13)	Insulating liquid	-
12 ^{2,4}	Determination of acid value by automatic potentiometric titration (ČK) ⁺	SOP 2-14/72 (ČSN EN 62021-1; ZM-12)	Insulating liquid	-
13 ²	Determination of PCB content by gas chromatography (GC/ECD - congeners 28, 52, 101, 138, 153, 180) and the sum of PCB congeners by calculation from measured values	SOP 2-19/72 (ČSN EN 61619)	Insulating liquid	-
14 ^{2,4}	Determination of the content of free and dissolved gases from oil-filled electrical equipment by gas chromatography (GC/TCD + FID)	SOP 2-23/72 (ČSN EN 60567 ed. 3, except chap. 4, 5)	Insulating liquid	-
15 ²	Determination of the content of dibenzyl disulfide (DBDS) by gas chromatography method (GC/ ECD)	SOP 2-26/72 (ČSN EN 62697-1)	Insulating liquid	-
16 ²	Determination of average viscometric degree of polymerization (PPS) ⁺ of paper insulation	SOP 2-30/72 (ČSN EN 60450)	Cellulosic electrically insulating materials	-
17 ²	Determination of the content of furan derivatives by high-performance liquid chromatography (HPLC/UV)	SOP 2-34/72 (ČSN EN 61198)	Insulating liquid	-

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Třanovského 622/11, 163 00 Praha 6 – Řepy

- ¹ asterisk at the ordinal number identifies the tests, which the laboratory is qualified to carry out outside the permanent laboratory premises; the numerical index at the test ordinal number identifies the location carrying out the test (the identification of the locations is given on the first page of this document)
- 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 the laboratory does not apply a flexible approach to the scope of accreditation

Specification of the scope of accreditation:

Ordinal test number	Detailed information on activities within the scope of accreditation (determined analytes)
14	hydrogen, methane, ethane, ethylene, acetylene, carbon monoxide, carbon dioxide, oxygen, nitrogen and their sum calculated from measured values (Qp).
17	5-hydroxymethyl-2-furfural (5HMF), 2-furfuryl alcohol (2FOL), 2-furfural (2FAL), 2-acetylfuran (ACF), 5-methyl-2-furfural (5MEF) and their sum calculated from measured values

Sampling:

Ordinal number	Sampling procedure name	Sampling procedure identification ¹	Subject of sampling
1 ^{1,2,4}	Sampling of insulating liquids (manual sampling)	SOP 2-02/72 (ČSN EN 60567 ed. 3 chap. 4, 5; ČSN EN IEC 60475 ed. 2; ZM-02, MP 03-2012)	Insulating liquid

- ¹ if the document identifying the sampling procedure is dated, only these specific procedures are used. If the document identifying the sampling procedure is not dated, the latest valid edition of the specified procedure is used (including any changes)
- ² the numerical index at the sampling ordinal number identifies the location carrying out the sampling (the identification of the locations is given on the first page of this document)

Explanations:

SOP	Standard Operating Procedure
ZM	Test method of the Czech Association of High-Voltage Laboratories (AZVN)
MP	Guideline of the Czech Association of High-Voltage Laboratories (AZVN)
TSE	Rotating electrical machines – Technological procedure of ČEZ a. s.
ČEZ_ME	ČEZ a. s. method
(...) ⁺	The data in parentheses at the test procedure name are abbreviations of the individual tests and they are stated in reports.

"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."