

**The Appendix is an integral part of
Certificate of Accreditation No. 543/2022 of 10. 11. 2022**

Accredited entity according to ČSN EN ISO/IEC 17025:2005:

ELDIAG s.r.o.
Testing Laboratory for Dielectric Testing
Novosibřinská 735, 190 16 Praha 9

Tests:

Ordinal number ¹	Test procedure/ method name	Test procedure/ method identification ²	Tested object
1	Determination of the breakdown voltage	SOP 001 (ČSN EN 60156)	Oils for power industry
2	Determination of loss factor	SOP 002 (ČSN EN 60247)	Oils for power industry
3	Determination of relative permittivity	SOP 003 (ČSN EN 60247)	Oils for power industry
4	Determination of acid value by coulometric titration	SOP 004 (Coulometer WTK manual)	Oils for power industry
5	Determination of relative interfacial tension by drop method	SOP 005 (ASTM D 2285)	Oils for power industry
6	Determination of water content by coulometric Karl Fischer titration	SOP 006 (ČSN EN 60814)	Oils for power industry
7	Determination of relative refractive index using Abbe Refractometer Determination of ageing coefficient by the calculation from the measured values of refractive index and relative permittivity Determination of the relative ratio of carbon atoms $C_a/C_n/C_p$ by the calculation from refractive index, kinematic viscosity and density	SOP 007 (ČSN 65 0341, DIN 51378)	Oils for power industry
8	Determination of oxidation inhibitor by IR spectrophotometer	SOP 008 (ČSN EN 60666)	Oils for power industry

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Ordinal number ¹	Test procedure/ method name	Test procedure/ method identification ²	Tested object
9	Determination of the content of free and dissolved gases by gas chromatography (GC/TCD + FID) ³	SOP 010 (ČSN EN 60567)	Oils for power industry
10	Determination of oxidation stability in accelerated conditions	SOP 011 (ČSN EN 61125)	Oils for power industry
11*	Measurement of capacity and dissipation factor	SOP 013 (ČSN 35 1090:1987)	Dielectric system
12*	Measurement of insulation resistance	SOP 014 (ČSN 35 1090:1987)	Dielectric system
13	Determination of the content of PCB substances by capillary gas chromatography (GC/ECD) ⁴	SOP 015 (ČSN EN 61619)	Oils for power industry
14	Determination of kinematic viscosity using Ubbelohde capillary viscometer with Kössler modification	SOP 018 (ČSN EN ISO 3104)	Oils for power industry

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 edition of the specified procedure is used (including any changes)

³ the following gases are determined: hydrogen, oxygen, nitrogen, methane, carbon monoxide, carbon dioxide, ethane, ethylene, acetylene, propane, butane

⁴ the following congeners are determined: C28, C52, C101, C138, C153, C180

Explanations:

SOP – Standard Operating Procedure
TCD – Thermal Conductivity Detector
FID – Flame Ionization Detector
ECD – Electron Capture Detector
PCB – Polychlorinated Biphenyls