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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

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Method of sampling insulating liquids

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foreword

This document is in accordance with the provisions of GB/T 1:1-2020 "Guidelines for Standardization Work Part 1: Structure and Drafting Rules of Standardization Documents"

drafted:

This document is equivalent to IEC 60475:2011 "Method for sampling insulating liquids":

The following editorial changes have been made to this document:

--- Write the introduction in IEC 60475:2011 as an important reminder into the main text of this document, between the document name and the "scope";

--- Adjust the bar number in the "step" column of Table 1 to the bar number corresponding to this document;

--- Subdivide 4:1:4:2 into two sub-level bars to make the presentation clearer:

Please note that some content of this document may be patented: The issuing agency of this document assumes no responsibility for identifying patents:

1 Scope

This document specifies sampling methods for insulating liquids, including transport containers and electrical equipment [such as power transformers, transformers, reactors, casings

Methods of sampling insulating liquids in pipes, oil-filled cables, oil-filled tank capacitors, switchgear and on-load tap-changers (LTCs)]:

This document applies to mineral oils and non-mineral oils (such as synthetic esters, natural

ester or silicone oil):

2 Normative references

The contents of the following documents constitute essential provisions of this document through normative references in the text: Among them, dated citations

documents, only the version corresponding to that date applies to this document; for undated references, the latest edition (including all amendments) applies to this document:

IEC 60567:2011 Guide for gas sampling and analysis of free and dissolved gases in oil-filled electrical equipment (Oil-filled electrical

equipment-Sampling of gases and analysis of free and dissolved gases-Guidance)

IEC 60970 Methods for particle counting and size classification of insulating liquids (Insulating liquids-Methods for counting and sizing particles)

3 Terms and Definitions

The following terms and definitions apply to this document:

3:1

shipping containers delivery containers

Containers for storing, transporting and delivering bulk oil products:

Note: Such as oil drums, railway tankers, road tankers or soft plastic bags:

3:2

Electrical equipment electrical equipment

Equipment filled with insulating oil, such as power transformers and transformers, reactors, bushings, oil-filled cables, oil-immersed iron-shell capacitors, switchgear and

On-load tap-changer (LTCS):

3:3

sampling equipment sampling equipment

For fittings from shipping containers (e.g: sampling probes, which can be ladle or siphon) and electrical equipment (e.g: connecting pipes and drain valves)