

**The 19th International Conference on  
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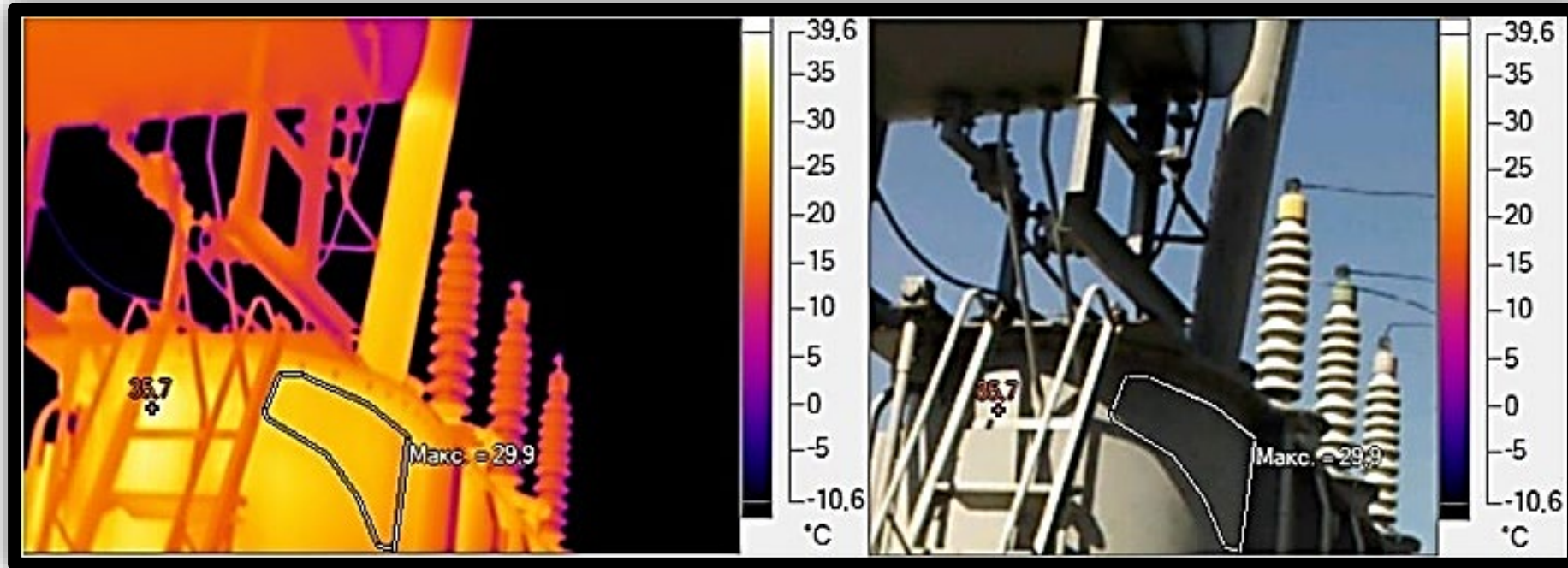


**MODERN METHODS OF DIAGNOSTICS OF ELECTRIC POWER EQUIPMENT**

**S.V. Rzayeva   N.A. Ganiyeva   N.M. Piriyeva**

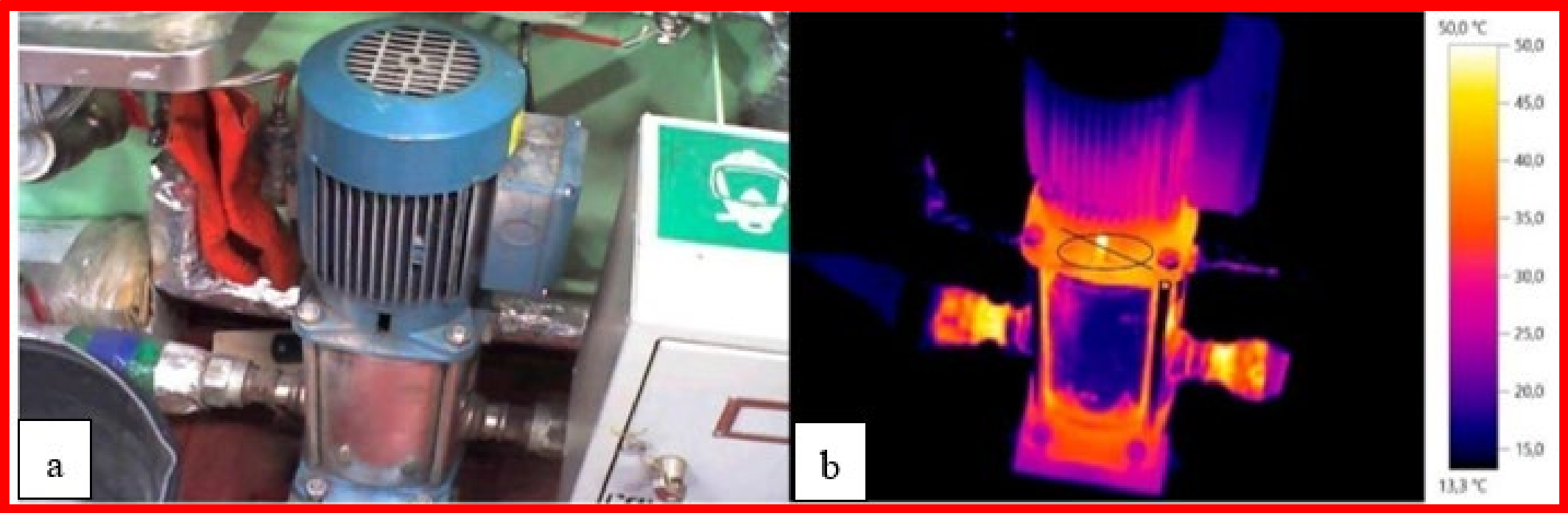
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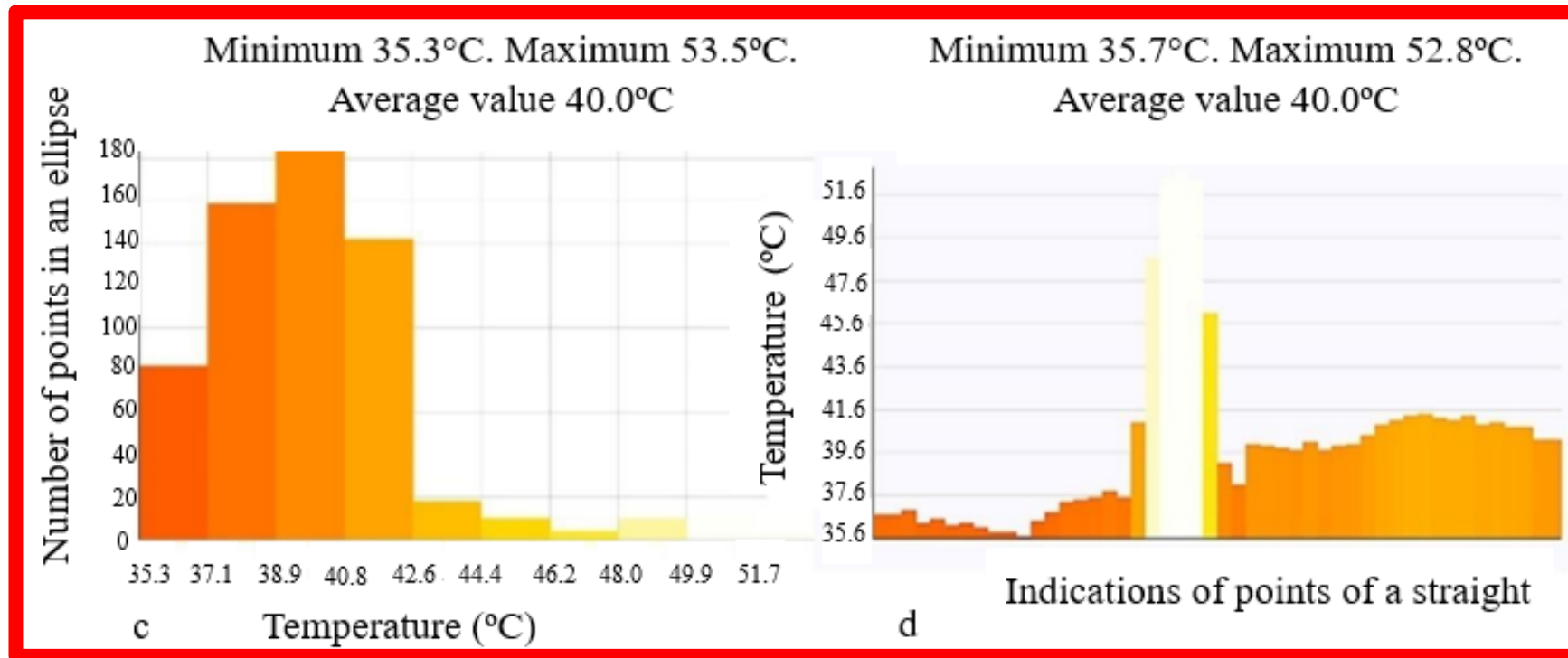
**Thermal imaging inspection of oil-filled current transformers**

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Ship electric fire pump (a), its thermal image (b)

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Thermograms taken with the TESTO 875 thermal imager (c, d).

## CONCLUSIONS

The widespread use of thermal imaging control methods makes it possible to qualitatively solve the problem of diagnosing and assessing the technical condition of various industrial facilities.

1. The thermal imaging method has a number of undeniable advantages (remoteness, clarity, objectivity, high performance, efficiency, etc.) compared to traditional methods for diagnosing electrical equipment, which makes it indispensable when examining a large group of dissimilar objects of electrical equipment within one enterprise.

2. Thermal imaging inspections of electrical equipment are carried out during its operation without disconnecting the load, therefore, during periodic inspections, defects can be quickly detected at an early stage of their development. An analysis of the results of the thermal imaging method with the above similar methods shows its advantages and specific verification for detecting problems related to temperature and thermal radiation. Thermal imaging method of detecting hypersensitivity to small temperature changes allows you to identify problems and prevent emergencies.