



**Petroleum and related products —
Maintenance and use of triaryl
phosphate ester turbine
control fluids — Guidance and
requirements**

*Produits pétroliers et produits connexes — Utilisation et
maintenance des fluides de régulation de turbines à base de
phosphates de tris(aryle) — Recommandations et exigences*

ISO 11365

**Second edition
2025-05**



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This document was prepared by Technical Committee ISO/TC 28, *Petroleum and related products, fuels and lubricants from natural or synthetic sources*, Subcommittee SC 4, *Classifications and specifications*.

This second edition cancels and replaces the first edition (ISO 11365:2017), which has been technically revised.

The main changes are as follows:

- clarification of the scope by explicitly listing TCD, TSD and TGD in addition to HFDR fluids;
- addition of supplementary fluid monitoring procedures.

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Many turbine manufacturers or electrical power utilities have requirements for the maintenance of triaryl phosphate ester hydraulic control fluids in service. A comparison of these requirements has made it possible to develop this document. However, the recommendations given in this document should be considered as guidance only. When interpreting results and deciding action, various factors should be taken into account, such as the conditions of use, the type of equipment and the general trend in fluid characteristics.

This document is intended to:

- assist the power equipment operator to maintain the fluid in a condition that will ensure the safe and reliable operation of the turbine while maximizing fluid life;
- provide recommended procedures for examining consignments of new fluid and monitoring the fluid in use;
- provide information on the safe handling, storage and disposal of the fluid;
- offer background information on the causes of fluid degradation.