

To Whom it may concern

Date:
8 May 2017

CC. EIOSC, ESKOM TRANSFORMER STEERING COMMITTEE

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Technical Instruction - Eskom Approved Insulating Oils – April 2017 rev 1

This notification replaces all previous lists of approved insulating oils meeting the requirements of Eskom specification 240-75661431. The list has been updated to include all oils recently tested and approved against Eskom latest specifications.

Oils listed here have been tested for compliance against Eskom specification **240-75661431 SPECIFICATION FOR MINERAL INSULATING OILS (UN-INHIBITED AND INHIBITED): PURCHASE, MANAGEMENT, MAINTENANCE AND TESTING**. Additional testing, as per Eskom specification, to determine oil gassing characteristics and their effect on oil monitoring equipment, as well as the impact of the oil type and composition on Eskom's overall oil management strategy, have also been considered by the EIOSC when finalizing the approved oils list.

Based on the results of the tests, the oils included in the table below are approved for use in Eskom applications. The responsibility for final oil selection for new equipment rests with the Original equipment Manufacturer (OEM); however they are required to use oils from the list below. Oils not listed here must be submitted to the EIOSC for evaluation and approval before use as per section 3 of the Eskom specification 240-75661431.

| OIL TYPE | MANUFACTURER | PRODUCT NAME |
|-----------------------|--------------|-----------------------------|
| Inhibited (Type I) | Calumet | Tufftran II |
| | Engen | Engen Poweroil TO 1020 60UX |
| | Ergon | Ergon Hyvolt III NG |
| | Nynas | Nynas Libra SA-GX |
| | Shell | Shell S4 ZX-I-G (GTL) |
| Un-inhibited (Type U) | Calumet | Caltran 60-00 |
| | Engen | Engen Poweroil TO 1020 60U |
| | Ergon | Ergon Hyvolt NG |
| | Nynas | Nynas Libra SA-G |

Yours sincerely



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