



APAR

Tomorrow's solutions today

POWEROIL®

Powering Ahead



POWEROIL TO NE PREMIUM

ECO - FRIENDLY LONG LIFE TRANSFORMER OIL



**TODAY, POWER OIL
TO NE
PREMIUM
IS THE BEST PERFORMING
NATURAL
ESTER
BASED TRANSFORMER OIL GLOBALLY.**

Transformer Oil is one of the most critical components in a power generation, transmission and distribution system that supports a transformer functioning at an optimum state.



APAR Industries Limited is a billion-dollar manufacturing company that holds a leadership position in its three principal business segments. Our range of speciality oils, conductors, cables, lubricants, speciality automotive oils and polymers have a significant market share in India and are sold in over 125 countries.

Our POWEROIL range of speciality oils includes 350+ grades of transformer oils, white oils, petroleum jellies, process oils, and lubricants. We are trusted by major OEMs, Utilities, Power Generation, Transmission and Distribution Companies globally to deliver cost - effective, quality products and services.



ABOUT US

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OUR PROMISE



WE ARE THE WORLD'S 3RD LARGEST PRODUCER OF TRANSFORMER OIL :

We have developed the right capabilities and expertise for product innovation, quality and timely service to our customers.

For over five decades, POWEROIL has been leading the innovation curve in the transformer oils segment and meeting various international performance standards. The entire range of transformer oils has been developed through our in-house R&D efforts.

POWEROIL also has a range of specially formulated transformer oils that are environment friendly, having excellent cooling characteristics, higher oxidation stability, lower gassing tendencies and stable insulating properties over its useful life. This range of Transformer Oils is marketed as POWEROIL NE Premium and is the best performing natural ester-based oil in the world.



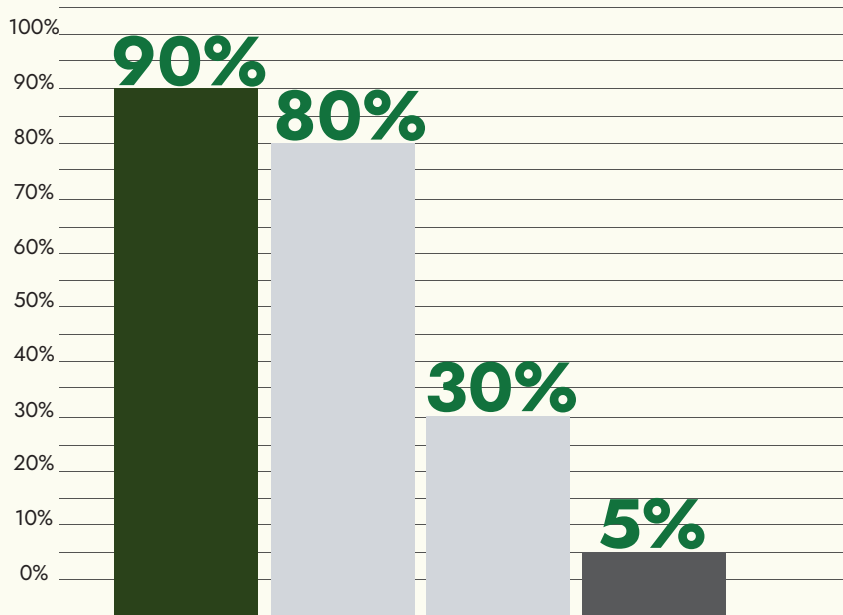
ABOUT POWEROIL TO NE PREMIUM

POWERING AHEAD SUSTAINABILITY

POWEROIL TO NE PREMIUM is a high performance K Class Natural Ester based transformer oil formulated from renewable plant-based feedstocks. This makes it highly biodegradable, with excellent cooling characteristics, high oxidation stability and fire resistance.

TYPES OF TRANSFORMER OILS UNDER K CLASS FIRE SAFETY

COMPARISON OF THEIR BIODEGRADABILITY



1

NATURAL ESTER OIL -

Made from Natural Renewable sources (POWEROIL TO NE & POWEROIL TO NE PREMIUM)

2

SYNTHETIC ESTER OIL -

Esters Synthesized from Basic Chemical Molecules

3

MINERAL OIL -

High Molecular Weight Hydrocarbons (POWEROIL TO - HFLL)

4

SILICONE OIL -

Made from Polymer blocks of silicone



KEY PERFORMANCE STANDARDS & FEATURES:

- Meets IEC 62770: 2013, ASTM D 6871 - 17 and IS 16659 : 2017 specifications
- Improved Oxidative life: 164 hours compared to 48 hours of IEC 62770 standard
- Lowest Viscosity build-up of less than 7% at 164 hours as per IEC 61125C
- Negative gassing as per IEC 60628 A / ASTM D 2300
- High compatibility with key Transformer components post Homologation (studies as per ASTM D 3455)
- Fire Safe as per ASTM D 92 (Meets K class requirement with fire point > 300° C)

WHAT MAKES POWEROIL TO BE PREMIUM THE BEST FOR TRANSFORMERS?

IMPROVES ASSET LIFE:

- Stable electric properties, longer service life, lower maintenance and replacement costs.
- Improves the life of cellulose paper (in turn increases the life of the asset).
- Allows flexibility of overloading by 25% in existing transformers.
- Retro filling of transformers increases the life of solid insulation material
- Consistent heat dissipation over time

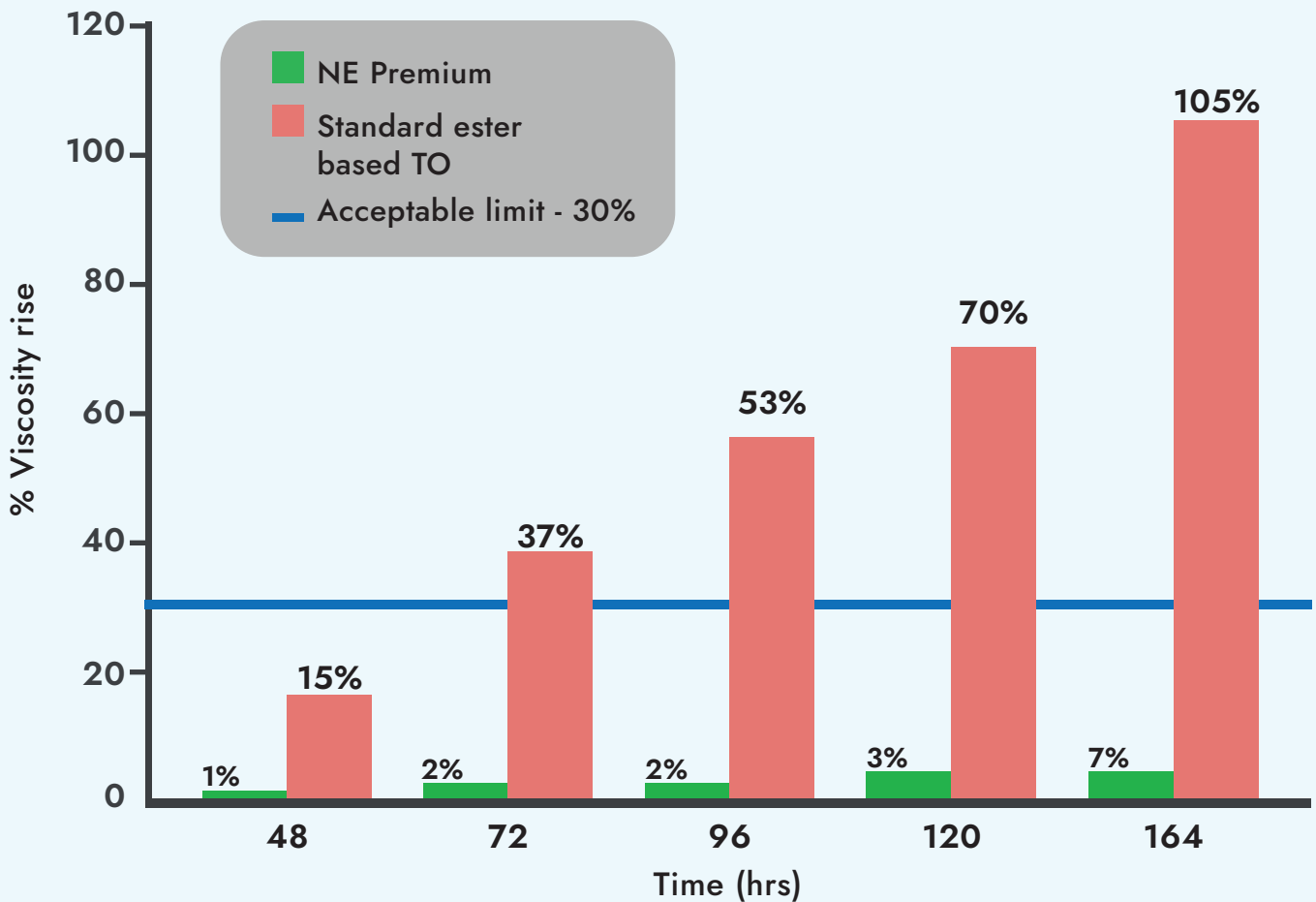


ENVIRONMENTAL BENEFITS:

- Formulated from selective plant-based Natural Esters with higher Oleic Content
- Readily Biodegradable (OECD 301 B) > 90%
- Low Aquatic toxicity (OECD 201, 203); ideal for floating installations
- Lowest Carbon footprint compared to any other transformer oils

Advantages of POWEROIL TO NE Premium over Conventional Natural Esters

Offering lowest viscosity build up



OST method as per IEC 61125 Method C



POWEROIL NE PREMIUM

is widely accepted for eco-sensitive zones and critical areas for:

- Transformers in offshore windmill systems
- In floating Solar Power System Installations
Offshore Oil & gas platforms
- Transformers In ships, Islands, Marine systems and mining sites
- Distribution Transformers in high-density urban areas
- Rectifier transformers
- Pole-type transformers



QUALITY SYSTEMS & CERTIFICATIONS

APAR's manufacturing facilities are accredited with:

- ISO 9001 : 2015,
- ISO 14001 : 2015
- OHSAS 45001: 2017
- ISO / IEC 17025 : 2017, (NABL - National Accreditation Board of Testing and Calibration Laboratories, Department of Science & Technology, Government of India).
- DSIR (Department of Scientific & Industrial Research) approved R&D centre.

Tested and approved by independent laboratories:

- Engie Laborelec laboratory, Belgium
- CPRI, India
- ERDA, India





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