

# ISO-RELIABILITY PARTNERS

REVOLUTIONISES OIL FILTRATION FOR EXTENDED EQUIPMENT LIFE

**C**ontamination, not degradation, is the primary reason for replacing lubricating oils. Traditional oil-drain intervals are often inadequate because standard filters cannot remove the microscopic contaminants that accumulate in the oil. Lubrication is essential for industrial and automotive performance and optimizing oil drain intervals can improve efficiency and reduce maintenance costs. ISO-Reliability Partners has developed an advanced solution that significantly extends oil life while enhancing reliability and sustainability

"In most cases, oil is drained and replaced simply because it gets contaminated with particulates too small for standard filtration to remove. Our cutting-edge micro fine filtration technology eliminates even the smallest impurities, keeping lubricants cleaner than brand new and extending oil life by up to 20 times," explains Craig

FitzGerald from ISO-Reliability Partners. FitzGerald notes that "A common industry misconception is that micro fine filtration removes vital oil additives." He clarifies

that due to the liquid nature and solubility of these additives, they remain unaffected under normal working conditions, ensuring the lubricant remains fully effective.

ISO-Reliability's innovative filtration and hydrocarbon purification technology removes all foreign particulates, including moisture, without affecting these essential oil additives. This ensures optimal equipment performance and reduces operational costs.

The correlation between oil quality, fluid cleanliness, and machine performance has been proven by over 50 years of research in tribology and fluid cleanliness. This research also shows that oil quality and fluid cleanliness directly affect uptime and maintenance costs. Even new oil from the manufacturer contains microscopic contaminants that can decrease efficiency and shorten the oil's lifespan. ISO-Reliability's solutions offer superior oil cleanliness, which can extend component life up to ten times and significantly reduce the frequency of oil changes.

IVL Swedish Environmental Research

Institute conducted a lifecycle analysis that determined conventional oil use results in 3,830 kg CO2 equivalent per cubic meter of oil. In 2024, ISO-Reliability purified and returned over 262,000 liters of industrial lubricating oil to service for high-profile clients across multiple industries, helping clients achieve an environmental saving of over one million kilograms of CO2.

Yateks® Africa, a division of ISO-Reliability, has launched high-precision oil quality sensors that provide real-time oil condition monitoring. These sensors enable maintenance professionals to move beyond monthly oil analysis reports and make proactive decisions to improve equipment reliability.

ISO-Reliability Partners is at the forefront of providing innovative and eco-conscious solutions for industries globally that are facing mounting pressure to minimize lubricant consumption and waste. By offering the best lubrication brands, technology, and solutions available, the company can extend oil drain intervals, maximize productivity, and enhance equipment longevity.



Solid particulate removal



Water removal down to 0 parts per million