

OA-TO

Turbine Oil ACE™ Analysis

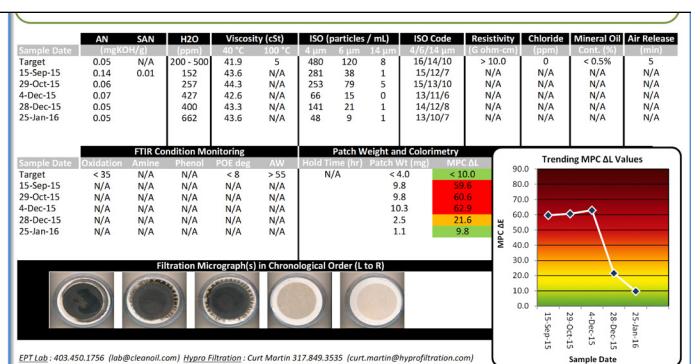
Industry leaders Hy-Pro Filtration and EPT Clean Oil™ have partnered to offer two levels of ACE™ testing for turbine oils. Each of these test packages is compliant with ASTM D4378 (the Standard Practice for In-Service Monitoring of Mineral Turbine Oils for Steam, Gas, and Combined Cycle Turbines). As such, ACE™ testing provides a complete picture of your turbine oil's condition, including its physical properties, contaminants, breakdown levels and remaining lifetime.



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HY-PRO™

Monitor Varnish Levels

During service, oil breakdown inevitably leads to varnish-formation. This varnish is the single most-common cause of oil-related failures and costly downtime in turbine applications. Despite the impact that varnish has, many oil analysis programs fail to regularly monitor varnish levels. ACE Initial and Milestone Assessments always evaluate your fluid's varnish potential using ASTM D7843-compliant MPC (membrane patch colorimetry) testing. Regular MPC analysis is imperative for turbine oils because you're blind to varnish and the problems it causes without it!



Forward Looking

Most oil analysis focuses on your turbine oil's current health. ACE Assessments take things one step further by monitoring antioxidant levels using LSV (linear sweep voltammetry) as outlined in ASTM D6971. This not only shows you where your oil is at today, but it can be used to evaluate your lubricant's remaining lifetime so that you can plan your oil maintenance more effectively tomorrow.

See the Big Picture

By following the ASTM D4378 spec, ACE Initial Assessments provide comprehensive information about your critical turbine lubricants, including: whether they're fit for service and whether an oil-related failure may be in progress or imminent. If problems are noted, ACE Assessments identify solutions and then make use of Milestone testing to trend and document their effectiveness so that you can achieve trouble-free operation for your most critical production assets. These solutions also allow you to extend your turbine oil's lifetime, eliminating the need for costly bleed-and-feeds/fluid replacement, while reducing the environmental impact of your operations.



Analysis Specifications

ACE™ Initial Assessments

ACE™ Milestone Assessments

Part Numbers

OA-602996

OA-602997

Description

This test package establishes your turbine oil's current condition and highlights any potential problems. It then takes the next step by actually cleaning your oil sample with patented ICB® filtration. Our ACE Initial Assessments don't just tell you what we can do for your turbine oil, they show you.

This test package fully documents the results that you've achieved following the installation of Hy-Pro/EPT Clean Oil filtration systems. Pull "Milestone" samples when you start and every month etc. thereafter to track the improvements in your critical fluid's condition.

Analysis Package Includes

- MPC Varnish Potential & Patch Weight
- Acid Number and Strong Acid Number by Potentiometric Titration
- Oil Color
- Water Content by Karl Fischer Titration

- Demulsibility (for steam turbine oils)
- Dissolved Metals by ICP-OES
- Antioxidant Levels by LSV
- Viscosity at 40°C (104°F)

Recommended Frequency

Monthly to Quarterly

Testing Standards

ASTM D7843
ASTM D664
ASTM D1500
ISO 4406 and 11500
ASTM D6304

ASTM D1401
ASTM D5185
ASTM D6971
ASTM D445

Sample Size Required

ACE Initial Assessment:
1,000 mL (sample bottle included)

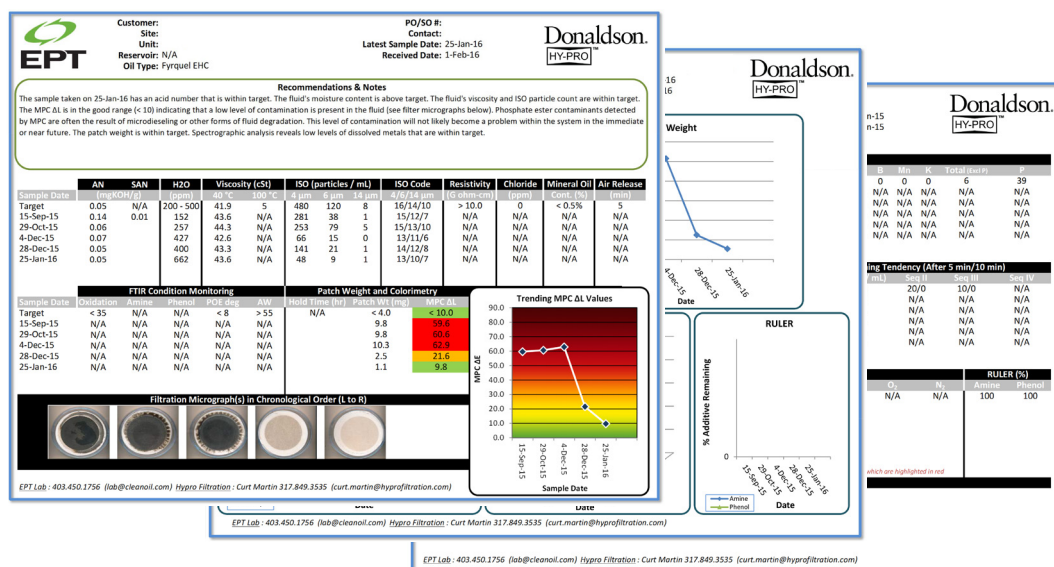
ACE Milestone Assessment:
500 mL (sample bottle included)

Fluid Compatibility

Gas Turbine Oils
Steam Turbine Oils
Compressor Oils
R&O Lube Oils

Mineral Oil-Based Hydraulic Fluids
AW Hydraulic Oils
Polyol Ester-Based Lubricants
Jet Engine Oils

Sample Report



Want to find out more? Get in touch.

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