# OA-TO

## Turbine Oil Analysis

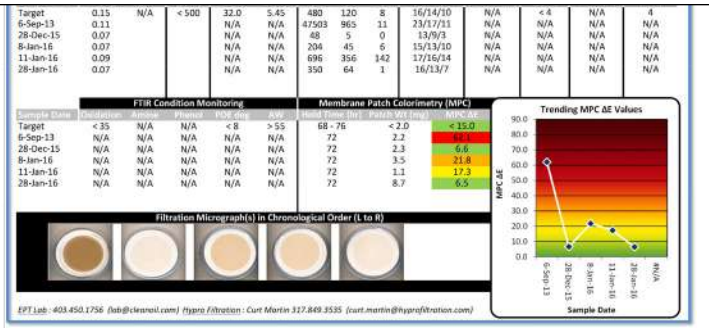
Hy-Pro offers two levels of analysis for turbine oils to provide insight into system conditions and to help predict and prevent fluid contamination related issues.

HY-PRO

hyprofiltration.com/

## Comprehensive analysis.

Newer generation group II based turbine oils typically have an anti-oxidant additive package made up of sacrificial amines and/or phenols that are depleted as oxidation and oil degradation occurs. The RULER (Remaining Useful Life Evaluation Routine) test compares remaining levels of anti-oxidant additive versus the levels found in new oil to give you the big picture of exactly how your oil is holding up.




## MPC.

ASTM developed standard (ASTM D7843-12) for quantifying the amount of oil degradation by-products in the oil that can lead to the formation of varnish deposits. We recommend monitoring MPC monthly on older fluids that may have depleted anti-oxidant levels and quarterly for new fluids.

## Trending.

OA-TO is an invaluable tool to establish a baseline for condition based recommendations to eliminate servo valve deposits, high acid number, water, or high ISO Codes. And once a Hy-Pro contamination solution has been implemented, OA-TO trends your progress toward success and trouble free operation.

# Analysis Specifications

| Oil Analysis Testing | OA-MPC601311 | OA-TO601368 |
|---|---|---|
| Description | **MPC varnish potential test includes:**<br>MPC colorimetry patch test and photo | **Full analysis package includes:**<br>TAN<br>Metals analysis ppm<br>Water % Karl Fischer<br>Viscosity at 40°C<br>MPC varnish potential<br>MPC patch weight<br>ISO particle count<br>RULER |
| Recommended Frequency | Monthly for varnish potential and ICB element condition monitoring | Bi-annually for overall lube oil condition monitoring |
| Testing Standards | MPC/Patch Weight: ASTM D7843 | TAN: ASTM D664<br>Metals: ASTM D5185<br>Water: ASTM D7546<br>Viscosity: ASTM D445<br>ISO Codes: ISO 11500/4406<br>MPC/Patch Weight: ASTM D7843 |
| Sample Size Required | 100mL (sample bottle included) | 350mL (sample bottle included) |
| Fluid Compatibility | Mineral oils and turbine oils | Mineral oils and turbine oils |