



GO BEYOND

KNOW YOUR ENGINE FROM THE INSIDE OUT

**INTRODUCING OUR
ADVANCED OIL ANALYSIS
TECHNOLOGY**

WWW.PWC.CA/OIL

ADVANCED PROGNOSTICS AND ENGINE HEALTH MANAGEMENT

IMPROVING PREDICTABILITY AND AVAILABILITY

Our Oil Analysis Technology detects minute metal traces within engine oil enabling us to identify the deterioration of specific components well before a potential event occurs.



FEW EASY STEPS, MANY BENEFITS



COLLECT OIL SAMPLE
EVERY 200-300 HOURS



SHIP TO
THE LAB



RECEIVE A
SUMMARY REPORT

**ORDER YOUR KIT BY LOGGING INTO OUR CUSTOMER PORTAL:
CUSTOMER.PWC.CA**



**IN-DEPTH ANALYSIS, TAILORED
TO EACH ENGINE MODEL**



**MAKE UNSCHEDULED
EVENTS SCHEDULED**



**SCHEDULE YOUR
MAINTENANCE EARLY**



**FOR MORE INFORMATION:
VISIT OUR WEBSITE AT WWW.PWC.CA/OIL**

or contact us at oil.technology@pwc.ca

OUR OIL ANALYSIS TECHNOLOGY

A NEW WAY TO EFFECTIVELY MONITOR THE OIL SYSTEM OF AN AIRCRAFT ENGINE

This innovative technology can detect specific engine conditions by identifying the wear patterns of oil-wetted components through analyzing particles found in the oil.

We are delivering a new, simple solution for monitoring the health of oil-wetted components. This solution can significantly reduce costs and maintenance workload.

WHY CHOOSE OUR OIL ANALYSIS TECHNOLOGY?

- Far more sensitive than traditional oil analysis.
- Detects a possible event up to hundreds of hours in advance.
- The only technology proven to identify carbon seal deterioration, which can lead to smoke in cabin.

GREATER INSIGHT FROM OIL

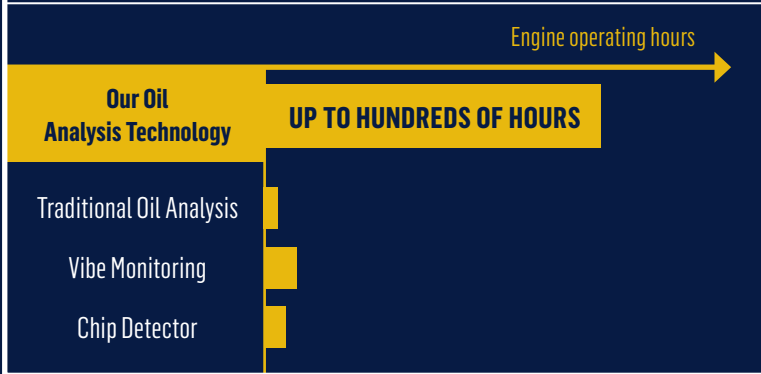
- Detects the source of debris earlier and more accurately than traditional oil analysis.
- Monitors the health of oil-wetted engine components.

OUR OIL ANALYSIS TECHNOLOGY ADVANTAGE

- In-depth analysis, tailored to each engine model.
- Customized maintenance recommendations from our experts.
- One-stop shop for all our services.

SENSITIVITY: KNOW EARLIER

Time to plan for an event



TECHNOLOGY IN ACTION

We identified a carbon seal deterioration pattern (that can lead to smoke in the cabin) 900+ hours prior to engine removal on an aircraft for a leading regional airline customer – avoiding \$400,000 in delays, cancellations and secondary damage.

SPECIFICITY: WHERE IS IT HAPPENING?

DETECTION CAPABILITY:	Traditional Oil Analysis	Our Oil Analysis Technology
Chemical elements concentration	✓	✓
Alloy concentration	—	✓
Particle characteristics	—	✓
Interaction behavior	—	✓

According to development and field tests



GO BEYOND

OUR OIL ANALYSIS TECHNOLOGY

MOVE TOWARDS A
100%
PLANNED MAINTENANCE
ENVIRONMENT

HIGH VISIBILITY
OF ENGINE HEALTH
WITHOUT INTRUSIVE
INSPECTIONS

TWO DECADES
OF DIAGNOSTICS & PROGNOSTICS
EXPERIENCE

2,000+
SATISFIED
CUSTOMERS

55,000+
OIL SAMPLES ANALYZED

**INTERESTED IN GETTING
AN OIL ANALYSIS KIT?**

Request more info here

www.pwc.ca/oil-analysis