

GE LM ENGINE SAMPLE ANALYSIS INFORMATION

GENERAL INFORMATION (OIL, FILTER, CHIP)

Date Collected

Company

Site Name

Turbine Model (ex: LM2500)

Turbine Runtime Since Installed in Package

Turbine Starts Since Installed in Package

Reason for Sample

- Routine Analysis High Vibration
 MetalSCAN Indication High Scavenge Temperature
 Chip Detector Indication Other (Please Specify)

Contact Name

Email

Telephone

Package Identification

Date Turbine Installed in Package

Turbine Designation/ESN

Oil Type in Use (ex: Aeroshell 500)

ADDITIONAL FILTER INFORMATION

Information in this section only required if filter collected for analysis

Turbine Runtime on Filter

Date Filter Installed

ADDITIONAL CHIP INFORMATION

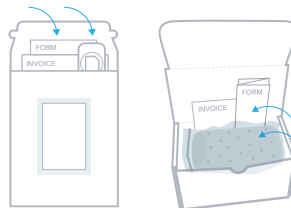
Information in this section only required if chips collected for analysis

Collection Location

- A-Sump AGB
 B-Sump Common Scavenge Line
 C-Sump Other (Please Specify)
 D-Sump
 E-Sump

Prepare your sample and ship to Gastops laboratory

- Prepare your sample according to instructions on the back of this document.
- Fill out sample request form above or at gastops.com/products-services/laboratory/GE-LM-sample-analysis-form.
- Place sample in cardboard mailer with the form.
- Include shipment paperwork (waybill and commercial invoice) with your sample.
- Courier to Dartmouth laboratory.



Condition Monitoring Laboratory
 10-109 Williams Avenue
 Dartmouth, NS B3B 2E3
 Canada

For more information, contact:

Laboratory Services | NSLab@gastops.com | +1 902 434 3892 x 300

Viscosity @ 40°C (ASTM D445)
 TAN (ASTM D664 or D974)
 Spectrometry (ASTM D5185)
 Water (ASTM D6304)

FTIR (ASTM E2412)
 Particle Count (NAS 1638)
 Colour (ASTM D1500)

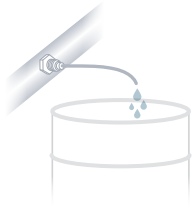
SAMPLE PREPARATION INSTRUCTIONS

Oil Analysis

IMPORTANT

- Oil sample should be taken at a location before oil travels through filter. It is recommended to take sample from an oil sampling port.
- Sample must be taken when equipment is running, or within 15 minutes of shut down.

- 1** Purge a small amount of oil from the sample valve into a waste container.



- 2** Fill the sample jar 3/4 full with oil, swirl oil in sample jar, drain oil into waste container.



- 3** Collect oil sample, fill to shoulder of jar. Seal lid tightly.

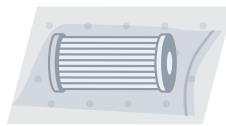


Filter Analysis

- 1** Remove filter from equipment. Drain residual oil from filter. Place filter in first Ziploc bag. Seal Ziploc.

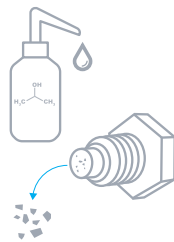


- 2** Wrap the Ziploc bag in absorbent pad provided. Place in the second Ziploc bag. Seal Ziploc.

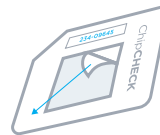


Chip Analysis

- 1** Take the debris to be analyzed and remove all residual contamination (ex: oil) by rinsing with Isopropyl Alcohol. Allow the particles to dry completely. Ensure to clean each tool prior to handling the debris.



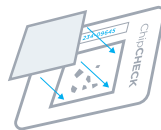
- 2** Remove the protective cover off the top surface of the Sample Patch by starting from the top right corner and peeling it directly across to the left.



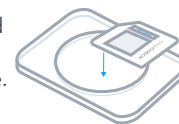
- 3** Place the particles onto the Sample Patch Window.



- 4** Re-apply the protective cover onto the Sample Patch window. This is to protect the sample prior to analysis, and can be used to pinch the patch and flatten particles further.



- 5** Place the prepared Sample Patch into the protective case.



IMPORTANT

- Ensure that the particles are **SPREAD OUT** (do not overlap), and that they lay **FLAT** on the clear window.
- Particles thicker than 0.5 mm must be broken into smaller pieces and placed individually on the Sample Patch.