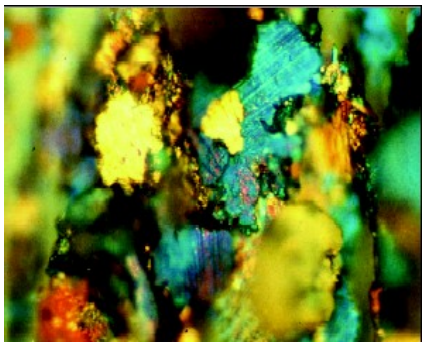
Ferrography – Machine Care Oil Analysis

Ferrography is a technique used for analyzing particles present in oils that indicate mechanical wear. The particles contained in the lubricating oil carry detailed and important information about the condition of the machine.

Particle shape, composition, size distribution and concentration are used to determine wear modes inside a machine along with a regular oil analysis program so that a maintenance recommendation can be made.

Benefits of Ferrography

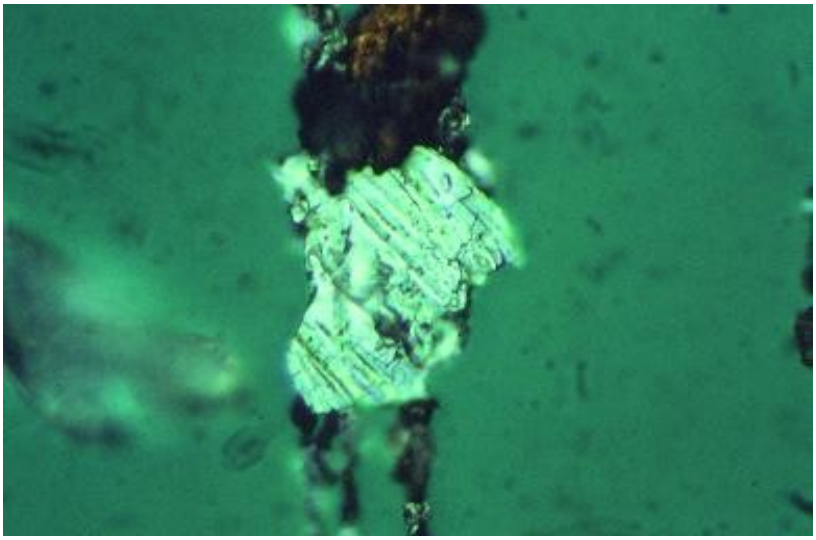
- Ferrography assists in the diagnosis of the origin, characteristics and distribution of wear particle debris.
- Identifies defective operating conditions
- Increases machine availability with less downtime
- Identifies the stage and type of wear modes.



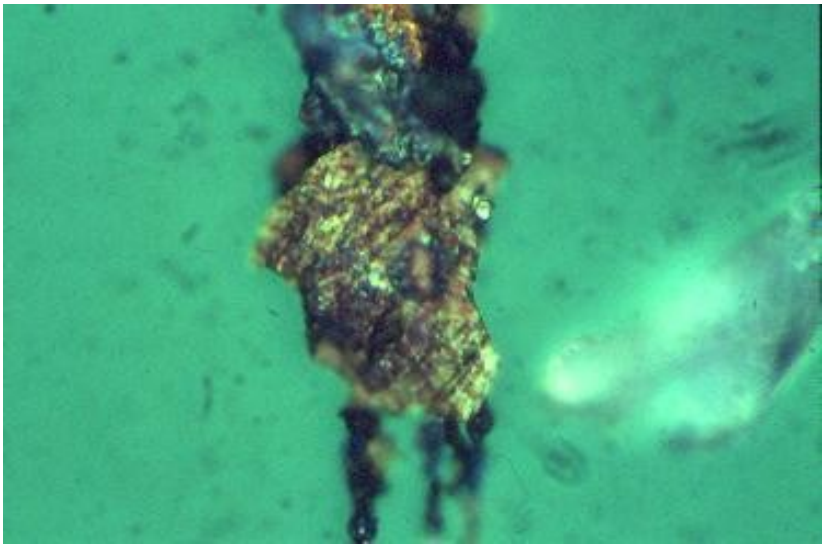
- Identifies the different wear particle types – Rubbing wear, Cutting wear, Rolling Fatigue, Combined Rolling and Sliding, Severe Sliding
- With heat treatment we can identify the metals present and possible source of wear.
- Helps schedule maintenance

For further information please contact our sales team at sales@tellab.ie or call us on +353 (0) 59 9152881

A Severe Sliding Particle from a Diesel Engine



Severe sliding particle before heat treatment. Note straight edges and striations



Severe sliding particle after heat treatment, straw temper colors indicates cast iron metallurgy

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