



Swansea Tribology Services

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Part of the Oil Analysis
Services Group



Lab Ref: 30001.008

Report Date: 24/02/2020

Customer:
EXAMPLE CUSTOMER
Site:
FACTORY 1

Equipment:
LINE 3 CONVEYOR(ABC 123)
GEARBOX
Sample Date: 29/07/2016

Lubricant:
MOBILGEAR 600 XP 220
Equipment Hours: 1395
Lube Hours: 1215

Comments:
Medium to Heavy density deposit.

PQ Index 785 (3ml slide).

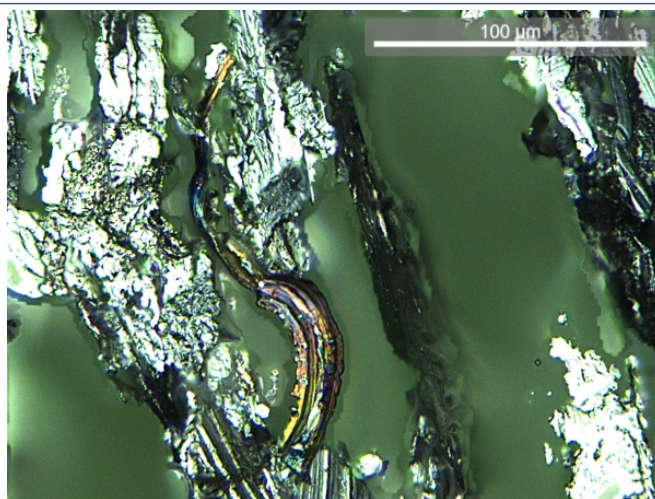
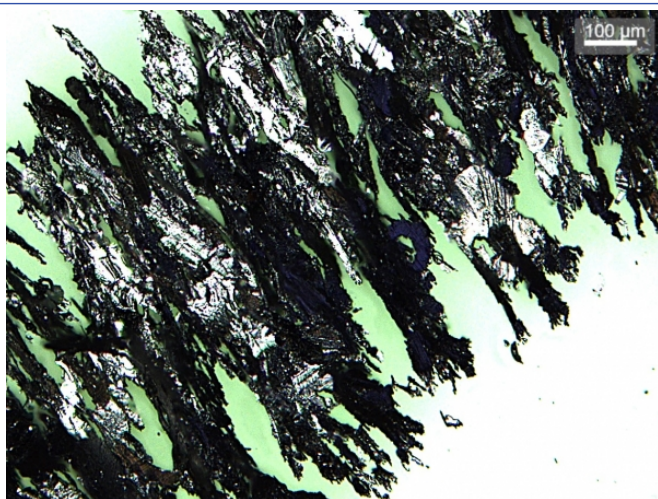
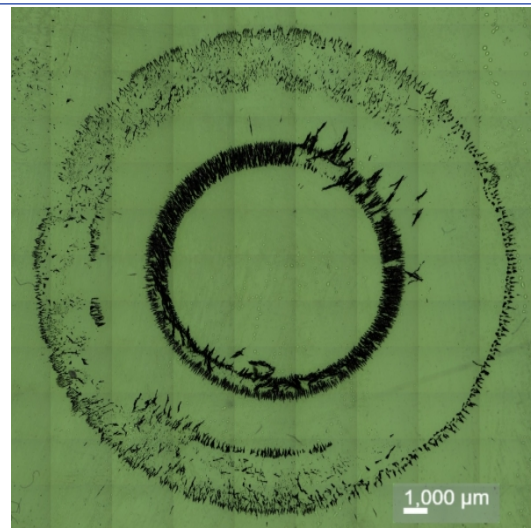
The majority of the particles present were normal rubbing/pitting wear ranging in size up to $\sim 920\mu\text{m}$ but generally $<15\mu\text{m}$.

Some fatigue chunks (up to $\sim 18\mu\text{m}$), cutting wear particles (up to $\sim 470\mu\text{m}$) and oxide particles (up to $\sim 65\mu\text{m}$) also present.

The occasional particle exhibited evidence of localised heating (temper colouring).

The wear rate appears to be above normal and the wear situation is regarded as that of Caution.

Considered Judgement of Wear Situation: **Caution**



Elements	Iron	306*
PPM	Chromium	8*
	Aluminium	35*
	Copper	9
	Lead	0
	Nickel	3*
	Tin	1
	Silicon	108**
	Sodium	0
	Boron	20
WATER (%)/(ppm)		- / 206
Viscosity @ 40°C		206
PQ Index		608*

Particle type	0	Few	Moderate	Heavy
Normal Rubbing				
Fatigue Chunks				
Spheres				
Laminar Particles				
Severe Wear Particles				
Cutting Wear Particles				
Corrosive Wear Particles				
Oxide Particles				
Dark Metallo-Oxides				
Non Ferrous (Metallic)				
Non Metallic (Crystalline)				
Non Metallic (Amorphous)				