



Swansea Tribology Services Ltd.

5 Penrice Court
Enterprise Park
Swansea SA6 8QW

Email: oiltest@trib.co.uk Tel: 01792 799036 Fax: 01792 799034

Lab Ref: *****

Customer:

Site:

Equipment:

Gearbox

Sample Date: *****

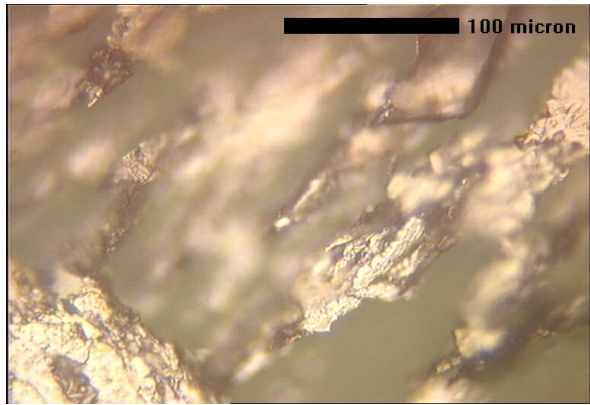
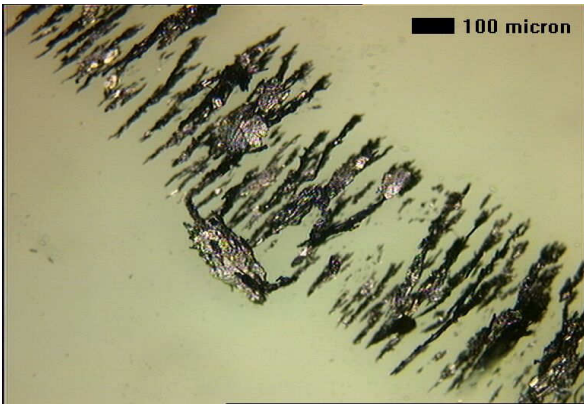
Lubricant:
Oil

Hours In Oil: -

Report Date: 08/06/10

Comments: Medium density deposit PQ Index 335 (2ml slide)
 The majority of the particles present were normal rubbing/pitting wear ranging in size up to ~260um but generally <10um□
 Some fatigue chunks (up to ~65um), cutting wear (up to ~600um) and evidence of water contamination also
 The wear pattern is similar to a "breaking in" situation□
 □
 The wear rate is above normal and the wear situation is regarded as normal to caution.

Considered Judgement of Wear Situation: **Normal to Caution**



Elements	Iron	38
ppm	Chromium	1
	Aluminium	0
	Copper	13
	Lead	1
	Nickel	0
	Tin	0
	Silicon	2
	Sodium	2
	Boron	2
	Water	-
	Viscosity @ 40°C	207
	PQ Index	267*

Particle Type	Few	Moderate	Heavy
Normal Rubbing	[Bar spanning Moderate to Heavy]		
Fatigue Chunks	[Bar spanning Few to Moderate]		
Spheres	[Bar spanning Few]		
Laminar Particles	[Bar spanning Few]		
Severe Wear Particles	[Bar spanning Few]		
Cutting Wear Particles	[Bar spanning Moderate to Heavy]		
Corrosive Wear Particles	[Bar spanning Few]		
Oxide Particles	[Bar spanning Few]		
Dark Metallo-Oxides	[Bar spanning Few]		
Non Ferrous(Metallic)	[Bar spanning Few]		
Non Metallic(Crystalline)	[Bar spanning Few]		
Non Metallic(Amorphous)	[Bar spanning Few]		