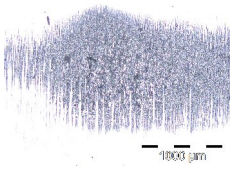
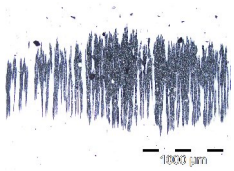
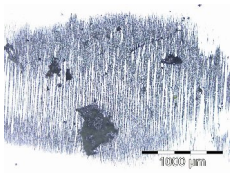
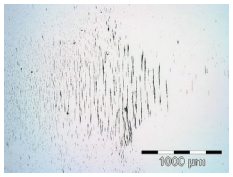
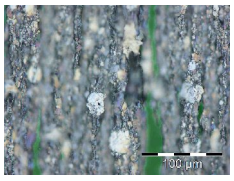
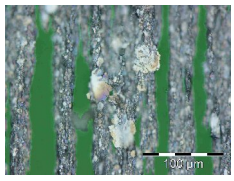
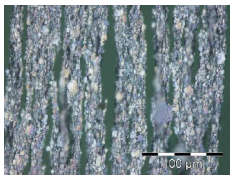
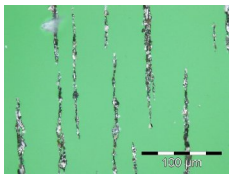
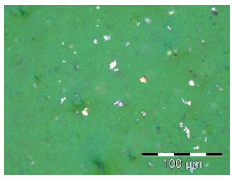
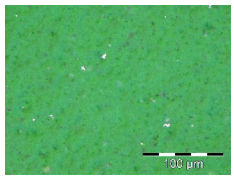
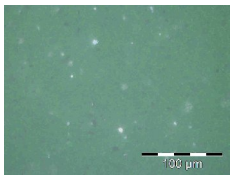
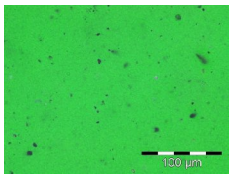
CUSTOMER
Code : **25048001**
Name :
Address : Vientiane | Lao People's Democratic Republic
Ban Houayxai
Site :
Location : Laos
Test code :

EQUIPMENT
Unit ID : **BHX 25 AG 001 Gearbox**
Unit Type : Gearbox General
Unit Make : (not given)
Unit Model : (not given)

OIL
Oil type / Viscosity : CALTEX MEROPA ISO 320
Oil System Capacity : 284 Liters

Notes (Finding, Evaluation, Interpretation, Suggestion and Recommendation)

Fatigue particles found in the ferrogram.

	Current Sample	Previous Sample		
Lab ID	251386	248441	243628	
Bottle ID	1035359	1035388	1028889	
Date Sampled	15-Mar-14	23-Feb-14	14-Jan-14	
Oil Hours (Kms)	Not Given	Not Given	Not Given	
Unit Hours (Kms)	Not Given	Not Given	Not Given	
Oil Change				
Oil Added (Liters)				
Filters Hours (Kms)				
				ASTM D 7690 M
Wear Condition				
Ferrographic Analysis				**Typical Normal Condition**
Volume of Sample Used	3.00 ml	3.00 ml	3.00 ml	3.00 ml
Image of Wear & Contaminants (Ferrogram) Magnification 50X				
Image of Wear & Contaminants (Ferrogram) Magnification 500X				
Image of Wear & Contaminants (Filtergram) Magnification 500X				

Wear & Contaminants Particles	%Rating	Size (Micron)	Particle Type	%Rating	Size (Micron)	Particle Type	%Rating	Size (Micron)	Particle Type	%Rating	Size (Micron)	Particle Type
Normal Rubbing Wear	65	2-3	1	70	2-3	1	75	2-3	1	95	2-3	1
Fatigue Gear Wear	15	10-30	1	15	10-50	1	10	5-20	1			
Fatigue Bearing Wear												
Fatigue Sphere												
Severe Sliding Wear												
Cutting Wear												
Black Oxides	5	10-40	1	5	5-10	1	5	5-10	1			
Red Oxides												
Corrosive Wear												
Dirt and Dust	5	10-40	3	5	10-40	3	5	5-40	3	5	3-5	3
Copper	5	5-20	2									
White Metal	5	5-20	2	5	5-10	2	5	5-10	2			
Ferrographic Analysis Rating (FAR) rating in grade	A B **C** D F			A B **C** D F			A B **C** D F					

%Rating : Percent area covered by wear debris particles or contaminant particles.
Size : Size in micron unit (0.001 mm)
Particle Type :
1 : Ferrous Wear Particles
1.1: Low Alloy 1.2 :Medium Alloy 1.3: High Alloy 1.4 Case Hardened
2 : Non-ferrous Wear Particles
2.1: Copper 2.2 : White Metal 2.3: Babbitting
3 : Contamination Particles
3.1:Fibers

Ferrographic Analysis Rating (FAR) , rating in grade
A : Excellent - normal rubbing wear condition
B : Good - normal rubbing wear condition
C : Fair or moderate - normal rubbing wear condition
D : Severe and/or critical - wear condition
F : Extreme severe and/or extreme critical - wear condition