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Decanter Service Report

Report No

Encl. ☐ Additional ☐ Spare Parts ☐ Vibration

Customer Company		Machine Type	CF5000	Date Started: 12/10/2020	Reason for Service: ☑ Routine ☐ Non-Routine ☑ Service ☐ Test ☐ Commission ☐ Damage
Street		Serial Number	8009-973	Time Started: 12:30 AM	Service Technician 1
ZIP/City	NURIOOPTA SA 5355	Bowl S/N	8009-973		Service Technician 2
Supervisor/ Responsible Person		Year of Construction			Product: Leeds
Email Address					
Phone Number					
Location of Work	Process shed.				Temperature
Proposed Work	Lube and inspection.				
Last Service On		Operating Hrs.	0		
Next Service On		Site Designation			

Machine Installation: ○ Concrete Floor ○ Concrete Building ◉ Steel Frame ○ Package Unit ○ Mobile

Operating Conditions: ☐ Ex-Operation ☑ Inert Gas ○ <12 h/d ◉ 12-24 h/d

Product Specs: ☐ Toxic ☑ Corrosive ☑ Adhesive ☐ Explosive

W.H. & S. Documentation Type: GEA

Service Report, Safe Work Method Statement and Job Hazard Analysis For:

SAFE WORK METHOD STATEMENT (SWMS)

RISK MATRIX	1	2	3	4	5
A	S	S	H	E	E
B	M	S	S	H	E
C	L	M	S	H	H
D	L	L	M	S	H
E	L	L	M	M	S

Likelihood	
A	Almost certain - Days to weeks
B	Likely - Weeks to months
C	Possible - Month to years
D	Unlikely - Years to decades
E	Rare - 25 years event

Consequences		(P) Personnel illness / Injury	(V) Environmental Effect
5 =	Catastrophic	Multiple fatalities	> 5 years / >$5 mill
4 =	Major	Single fatality	1 - 5 Years / $1.5 - $5 mill
3 =	Moderate	Multiple casualties requiring hospital attention	<1 Year / $20,000 - $1.5 mill
2 =	Minor	Minor injuries requiring medical attention	$5000 - $20,000
1 =	Insignificant	Minor injury requiring First Aid attention only	< $5000

KEY:	EXTREME RISK	HIGH RISK	SEVERE RISK	MEDIUM RISK	LOW RISK

ACTIVITY LIST THE TASKS REQUIRED TO PERFORM THE ACTIVITY IN THE SEQUENCE THEY ARE TO BE CARRIED OUT	POSSIBLE HAZARDS AGAINST EACH TASK LIST THE HAZARDS THAT COULD CAUSE INJURY WHEN TASK IS PERFORMED	Risk Score	RISK CONTROL MEASURE LIST CONTROL MEASURES REQUIRED TO ELIMINATE OR MINIMISE THE RISK OF INJURY ARISING FROM THE HAZARD	Risk Score
Isolate all energy from machine	Electrocution Chemical contact with skin/ eyes Product contact with skin/ eyes Compressed air Crush Laceration Pinch point	A4	Use correct isolation procedure Ensure personal locks are in place Check that all energy has been removed from machine and surrounding equipment (pipes, valves, conveyors) Training Ensure MSDS is available read it and ensure all first aid precautions are available on site of use in the event of a spill	E4
Remove feed and discharge pipes from machine and ensure they are empty of product	Crush Laceration Pinch point Manual handling injuries Chemical contact with skin/ eyes Product contact with skin/ eyes	A2	Use correct manual handling techniques Ensure MSDS is available read it and ensure all first aid precautions are available on site of use in the event of a spill Training	E2
Remove hood or swing hood out of the way	Chemical contact with skin/ eyes Product contact with skin/ eyes Crush Laceration Pinch point Manual handling injuries	B2	Use correctly rated lifting equipment provided by customer Training Use correct manual handling techniques	E2

Drive Components			Drive Type:	2 Gear Drive	
Component	Condition	Action	Comment		
Primary Gearbox S/N					
Primary Gearbox	Select...	Select...			
Secondary Gearbox S/N					
Sec. Gearbox	Select...	Select...			
Gearbox Driver	Select...	Select...			
Gearbox Pulleys	Select...	Select...			
Drive Belts	Select...	Select...		Qty.	
Gearbox Coupling	Select...	Select...			
Motor Pulleys	Select...	Select...			
Primary Motor	Select...	Select...			
Secondary Motor	**Select...**	**Select...**			
	Select...	**Select...**			

Lubrication and Lubrication System					
Component	Type	Details	Condition	Action	Comment
Main Bowl Bearing Lubricant	Oil / Air Mist	GEA	Good	No action req'd	Topped.
Scroll Hub Bearing Lubricant	Oil	GEA	Good	Replaced	As per procedure.
Scroll Support Bearing Lube	Oil	GEA	Acceptable	No action req'd	
Gearbox Lubricant	Oil	GEA	Good	No action req'd	
Motor Bearing Lubricant	Select...		Select...	Select...	
Oil Filters			Select...	Select...	
Oil Pump			Select...	Select...	
Oil Cooler			Select...	Select...	
Auto Lubrication Unit			Select...	Select...	
Lubricant levels			Good	No action req'd	
			Select...	Select...	

Service Report

Rotating Assembly Components | **Decanter Type:** 3 Phase | Pump Discharge

Component	Condition	Action	Comment
BOWL			
Bowl S/N			
Bowl Shell	Select...	Select...	
Bridge Breakers	Select...	Select...	
Guard Rings	Select...	Select...	
Wear Bushes	Select...	Select...	
Bowl Bearings	Select...	Select...	
Bearing Housings	**Select...**	**Select...**	
Bowl Gaskets	Select...	Select...	
	Select...	Select...	
SCROLL			
Scroll S/N		Select Wear Protection Type	
Flight Wear	Select...	Select...	
Distributor	Select...	Select...	
Driver	Select...	Select...	
Scroll Hub	**Select...**	**Select...**	
Scroll Hub Bearings	**Select...**	**Select...**	
Scroll Support	**Select...**	**Select...**	
Scroll Supp. Bearings	**Select...**	**Select...**	
Gaskets	**Select...**	**Select...**	
	Select...	Select...	

Bowl was replaced with

Bowl S/N:

Year of constr.

Scroll was replaced with

Scroll S/N:

Year of Constr.

Scroll Wear Protection Type

Hard Facing

To Environment		
Yes / No		
Yes	Spill/ Pollution	48. Waste oil collection/disposal.
No	Flora/ Fauna Impact	
No	Chemical/ MSDS	

Other:	
1.	
2.	
3.	

Job Specific Instructions	Equip for Isolation	Isolation Point	Sign

Authorisation to Proceed	We have carried out a job hazard assessment and agree that the work described may proceed in accordance with the controls/ precautions specified		
Person Performing work:		Person Supervising work:	
Date:	12/10/2020	Date:	12/10/2020

Job Hazard Assessment

Hazard Identification		Controls Requested (1 – 48)
To People		
Yes / No		
No	Confined Space	
No	Lone Worker	
No	Restricted Access	
No	Electrical	
No	In wall/ U-ground services	
No	Fire/ Explosion	
Yes	Mobile Plant	10,15,40,41
No	Pressure/ Vacuum	
No	Heat source	
Yes	Overhead hazards	15,23
Yes	Working at height	12
Yes	Objects falling	23
Yes	Noise	29
Yes	Manual handling	15,41,45,10,35
Yes	Moving machinery	10
Yes	Uneven slippery surfaces	24
Yes	Asbestos/ SMF	
No	Sun, UV, rain, wind	
No	Poor housekeeping	
No	Poor lighting	
No	Hazardous gas	
No	Gas torch	

Controls/ Precautions

Physical Isolations

1. Electrical
2. Steam
3. Hydraulic
4. Pneumatic
5. Barricading
6. Traffic Management
7. Other

Plant & Equipment

8. Boom lift
9. Scissor lift
10. Forklift
11. Scaffold
12. Ladder
13. Barricade
14. Fan
15. Rigging/ lifting gear
16. Other

Permits Required

17. Confined space
18. Hot work
19. High Voltage
20. Ground Breaking
21. Roof Access
22. Other

PPE

23. Safety Helmet
24. Safety boots
25. Safety Glasses
26. Face Shield
27. Chemical Goggles
28. Welding Helmet
29. Hearing Protection
30. Respirator
31. P2 Dust Mask
32. Reflective Vest
33. Wet Weather Gear
34. Safety Harness & Lifeline
35. Riggers Gloves
36. Kevlar Gloves
37. Chemical Gloves
38. Other

Personnel Required

39. Safety Watch
40. Rigger
41. Crane Driver
42. Forklift Driver
43. Electrician
44. Instrument Fitter
45. Mechanical Fitter
46. Boilermaker
47. Other

Other Controls

48.

Check whole machine prior to de isolated and clean up area	Slip Trip fall	B2	Ensure path around machine is clear and tidy free of obstacles	E2
De isolate all energy	Electrocution Chemical contact with skin/ eyes Product contact with skin/ eyes Compressed air Crush Laceration Pinch point	A4	Use correct de-isolation procedure Ensure personal locks are removed I correct order Check that all energy for the machine and surrounding equipment (pipes, valves, conveyors) is ready for use Training	D4
Check for product/ water leaks	Chemical contact with skin/ eyes Product contact with skin/ eyes	A2	Training Ensure MSDS is available read it and ensure all first aid precautions are available on site of use in the event of a spill	D2
Start machine	Chemical contact with skin/ eyes Product contact with skin/ eyes Flying unsecured objects/ parts of machine	B3	Training Ensure MSDS is available read it and ensure all first aid precautions are available on site of use in the event of a spill	D3
Monitor machine while in run mode including machine vibration	Chemical contact with skin/ eyes Product contact with skin/ eyes Flying unsecured objects/ parts of machine	C3	Training Ensure MSDS is available read it and ensure all first aid precautions are available on site of use in the event of a spill	D3
Hand back serviced machine to customer	Slip Trip Fall	C2	Ensure path to exit is clear and tidy free of obstacles (customers responsibilities)	E2
Complete paper work and leave site	Slip Trip Fall	C2	Ensure path to exit is clear and tidy free of obstacles (customers responsibilities)	E2

Unbolt rotating assembly	Crush Laceration Pinch point Manual handling injuries	B2	Use correct manual handling techniques Training	E2
Remove belts from machine	Crush Laceration Pinch point Manual handling injuries	B2	Use correct manual handling techniques Training	E2
Lift rotating assembly/ bowl from machine Place in specified work area	Crush Laceration Pinch point Manual handling injuries	B4	Use correctly rated lifting equipment provided by customer Use correct manual handling techniques Training	D4
Dismantle scroll, bowl, bearing hubs, scroll bearing, spindle etc.	Crush Laceration Pinch point Manual handling injuries	B2	Use correctly rated lifting equipment provided by customer Use correct manual handling techniques Correct tools for the specific task Training	D2
Cleaning of machine and parts using chemicals, High pressure washer, scrappers scarring pads	Crush Laceration Pinch point Manual handling injuries Chemical/ hot water burns Eye injury Inhalation	A2	Correct PPE Training Ensure MSDS is available read it and ensure all first aid precautions are available on site of use in the event of a spill	D2
Assemble scroll, bowl, bearing hubs, scroll bearing, spindle etc.	Crush Laceration Pinch point Manual handling injuries	B2	Use correctly rated lifting equipment provided by customer Use correct manual handling techniques Correct tools for the specific task	E2
Replace all parts within the provided spares kit and ensure correct placement	Laceration Manual handling injuries	C2	When opening parts ensure correct knife usage Use correct manual handling techniques training	E2
Lift rotating assembly/ bowl back into machine frame	Crush Laceration Pinch point Manual handling injuries	B2	Use correctly rated lifting equipment provided by customer Use correct manual handling techniques Training	D2
Replace/ refit belts to machine	Crush Laceration Pinch point Manual handling injuries	B2	Use correct manual handling techniques Training	D2
Ensure all bolts are fastened and torqued to specified tension	Manual handling injuries	B2	Use correct manual handling techniques Training	E2
Replace hood, feed and discharge pipes to machine and ensure remaining bolts are tightened	Crush Laceration Pinch point Manual handling injuries	B2	Use correctly rated lifting equipment provided by customer Training Use correct manual handling techniques	D2

Remarks, e.g. defects to be eliminated, modifications etc.

Carried out and completed lube and inspection on above mentioned machine, replaced scroll hub oil and topped up air/oil mist lubrication reservoir, test ran machine dry, all O.K.

End of Work

Isolations Signed off? Yes	All Guards back in place? Yes	Tools and equipment packed away? Yes	Housekeeping OK? Yes

Date:	Service Tech:	Customer Representative:
21/11/2019	[redacted]	[redacted]
		Name: [redacted] Title: [redacted]

Rating	Comment	A.N.
Select		

Frame, Hood, Fittings, Feed Tube, Solenoid Valves, Centripetal Pump

Component	Condition	Action	Comment
Frame	Good	No Action Req'd	
Guards	Good	No Action Req'd	
Hood	Good	No action req'd	
Fastening elements	Good	No Action Req'd	
Control & Monitoring equipment	Good	No action req'd	

Component	Condition	Action	Comment
Feed & disch. connections	Good	No action req'd	
Feed Tube	Select...	No Action Req'd	
Flush Solenoid Valves	Acceptable	No action req'd	ø mm
Centripetal pump	Select...	Select...	ø mm
Regulating ring	Select...	Select...	ø mm

Post Service Testing and Information

Test run:	☑ Yes ☐ No	☐ With Product ☑ With Water ☑ Dry			Current consumption	from to	amps
Direction of Rotation Correct	☑ Yes ☐ No	Actual Bowl Speed		RPM	(Basic) Differential Speed		RPM
Vibration (HMI)	Liquid End		mm/s		Solids End		mm/s
Vibration (Actual)	Liquid End		mm/s		Solids End		mm/s
Function of timing unit ☐		Functioning of safety equipment ☐					

Personnel was given training	☑
The Decanter was handed over to the operator after the test run in an operable condition	☑
The Decanter must be shut down for safety reasons	☐
It was pointed out to the operator that he must use only genuine spare parts	☑

Spare Parts Returned ?	○ Yes ◉ No		Is the B.O.M. Accurate ?	◉ Yes ○ No
Are the Machine Tools Complete?	Yes			