

 engineering for a better world		GEA Australia A.B.N. 21 006 947 235 47 Northgate Drive Thomastown, VIC 3074 Tel: +61 3 8877 9999 Fax: +61 3 9464 5455		Decanter Service Report		Report No. _____ Encl. _____	
Customer Company		Machine Type		Date Started: 4/11/2021		Reason for Service	
		CF5000		Time Started: 12:30 AM		☒ Routine ☐ Non-Routine ☒ Service	
Street		Serial Number		Service Technician 1		Test	
		8009-973				☐ Commission ☐ Damage	
ZIP/City		Bowl S/N		Service Technician 2			
		8009-973					
Supervisor/ Responsible Person		Year of Construction		Product		Leads	
Email Address							
Phone Number							
Location of Work		Process shed.		Temperature			
Proposed Work		Lube and inspection.					
Last Service On		Operating Hrs.		2315			
Next Service On		Site Designation					
Machine Installation:		Operating Conditions:		Ex-Operation		Product Specs:	
☐ Concrete Floor ☐ Concrete Building ☒ Steel Frame		☐ Package Unit ☐ Mobile		☐ Inert Gas ☒ Ex-Gas		☐ <12 h/d ☒ 12-24 h/d	
						☐ Toxic ☒ Corrosive ☐ Adhesive ☐ Explosive	
		W.H. & S. Documentation Type:		GEA			

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		Consequences		(P) Personnel illness / Injury	(V) Environmental Effect
A	Almost certain - Days to weeks	5 =	Catastrophic		
B	Likely - Weeks to months	4 =	Major	Multiple fatalities	> 5 years / >\$5 mill
C	Possible - Month to years	3 =	Moderate	Single fatality	1 - 5 Years / \$1.5 - \$5 mill
D	Unlikely - Years to decades	2 =	Minor	Multiple casualties requiring hospital attention	<1 Year / \$20,000 - \$1.5 mill
E	Rare - 25 years event	1 =	Insignificant	Minor injuries requiring medical attention	\$5000 - \$20,000
				Minor injury requiring First Aid attention only	< \$5000

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

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, scrapers 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

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

Job Hazard Assessment

Hazard Identification		Controls Requested (1 – 48)	Controls/ Precautions	
To People			Physical Isolations	PPE
Yes / No			1. Electrical	23. Safety Helmet
No	Confined Space		2. Steam	24. Safety boots
No	Lone Worker		3. Hydraulic	25. Safety Glasses
No	Restricted Access		4. Pneumatic	26. Face Shield
No	Electrical		5. Barricading	27. Chemical Goggles
No	In wall/ U-ground services		6. Traffic Management	28. Welding Helmet
No	Fire/ Explosion		7. Other	29. Hearing Protection
No	Mobile Plant			30. Respirator
Yes	Pressure/ Vacuum	10, 15, 40, 41	Plant & Equipment	31. P2 Dust Mask
No	Heat source		8. Boom lift	32. Reflective Vest
Yes	Overhead hazards	15, 23	9. Scissor lift	33. Wet Weather Gear
Yes	Working at height	12	10. Forklift	34. Safety Harness & Lifeline
Yes	Objects falling	23	11. Scaffold	35. Riggers Gloves
Yes	Noise	29	12. Ladder	36. Kevlar Gloves
Yes	Manual handling	15, 41, 45, 10, 35	13. Barricade	37. Chemical Gloves
Yes	Moving machinery	10	14. Fan	38. Other
Yes	Uneven slippery surfaces	24	15. Rigging/ lifting gear	
Yes	Asbestos/ SMF		16. Other	
No	Sun, UV, rain, wind		Permits Required	Personnel Required
No	Poor housekeeping		17. Confined space	39. Safety Watch
No	Poor lighting		18. Hot work	40. Rigger
No	Hazardous gas		19. High Voltage	41. Crane Driver
No	Gas torch		20. Ground Breaking	42. Forklift Driver
			21. Roof Access	43. Electrician
			22. Other	44. Instrument Fitter
				45. Mechanical Fitter
				46. Boilermaker
				47. Other
				Other Controls
				48.

Service Report

Rotating Assembly Components			Decanter Type: 3 Phase	Pump Discharge
Component	Condition	Action	Comment	
BOWL				
Bowl S/N				Bowl was replaced with
Bowl Shell	Select...	Select...		Bowl S/N:
Bridge Breakers	Select...	Select...		Year of constr.
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		Scroll was replaced with
Flight Wear	Select...	Select...		Scroll S/N:
Distributor	Select...	Select...		Year of Constr.
Driver	Select...	Select...		Scroll Wear Protection Type
Scroll Hub	Select...	Select...		Hard Facing
Scroll Hub Bearings	Select...	Select...		
Scroll Support	Select...	Select...		
Scroll Supp. Bearings	Select...	Select...		
Gaskets	Select...	Select...		
	Select...	Select...		

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...		

Frame, Hood, Fittings, Feed Tube, Solenoid Valves, Centripetal Pump						
Component	Condition	Action	Comment	Component	Condition	Action
Frame	Good	No Action Req'd		Feed & disch. connections	Good	No action req'd
Guards	Good	No Action Req'd		Feed Tube	Select...	No Action Req'd
Hood	Good	No action req'd		Flush Solenoid Valves	Acceptable	No action req'd
Fastening elements	Good	No Action Req'd		Centripetal pump	Select...	Select...
Control & Monitoring equipment	Good	No action req'd		Regulating ring	Select...	Select...

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									

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.

Please note; Above mentioned machine has had very little running hours since last service, has been suggested that machine should be ran up once a month for bearing longevity and lubrication of all major moving components.

End of Work				
Isolations Signed off? <u>Yes</u>		All Guards back in place? <u>Yes</u>	Tools and equipment packed away? <u>Yes</u>	Housekeeping OK? <u>Yes</u>
Date: 4/11/2021	Service Tech:		Customer Representative:	
		Name:	Title:	
Rating Select	Comment			
A.N.				