

DESCRIPTION:	Mechanical – ST041 Belt Filter Press 1 – Inspection and Service	FREQUENCY:	
LOCATION:		STANDARD JOB No.:	

SCOPE	
Complete inspection and service of belt filter press.	
Applies to Andritz SMXQ. (without automatic lubrication)	
REQUIREMENTS	
*Equivalents can be used but must be documented for future use.	
BASIC SERVICE	
Top up oil - Pneumatic Circuit (lubrication point in circuit upstream of the SMX). Use VG 32 pneumatic oil or equivalent. Lubrication flow rate should be 100 mL per month.	
Clean air filter.	
Check all airlines for leaks.	
MINOR SERVICE	
Before isolating any equipment, check for unusual noise, vibration, leaks.	
Grease bearings (16 grease nipples) - mounting type SNL 209. Use Shell Alvania EP 2 or equivalent. 10 grams per lubrication point.	
Grease bearings (24 grease nipples) - mounting type SNL 215. Use Shell Alvania EP 2 or equivalent. 20 grams per lubrication point.	
Correction slide smooth surface (2 of) - Remove old grease. Apply new grease. Use Shell Alvania G 3 or equivalent.	
Belt tensioner toothed rack and drive sprocket (4 of) – Remove old grease. Apply new grease. Use Shell Alvania G 3 or equivalent.	
Top up oil - Pneumatic Circuit (lubrication point in circuit upstream of the SMX). Use VG 32 pneumatic oil or equivalent. Lubrication flow rate should be 100 mL per month.	
Clean air filter.	
Check all airlines for leaks.	
Stroke the belt tensioning rams to ensure correct operation. Check set pressure.	
Manually actuate the tracking arms to move the tracking bellows.	

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INTERMEDIATE SERVICE
NOTES:
Minor repairs and/or additional replacements other than already documented can be undertaken, however, request to be submitted to Urban Utilities for approval before proceeding.
Before isolating any equipment, check for unusual noise, vibration, leaks.
<i>Lubrication:</i>
Grease bearings (16 grease nipples) - mounting type SNL 209. Use Shell Alvania EP 2 or equivalent. 10 grams per lubrication point.
Grease bearings (24 grease nipples) - mounting type SNL 215. Use Shell Alvania EP 2 or equivalent. 20 grams per lubrication point.
Correction slide smooth surface (2 of) - Remove old grease. Apply new grease. Use Shell Alvania G 3 or equivalent.
Belt tensioner toothed rack and drive sprocket (4 of) – Remove old grease. Apply new grease. Use Shell Alvania G 3 or equivalent.
Top up oil - Pneumatic Circuit (lubrication point in circuit upstream of the SMX). Use VG 32 pneumatic oil or equivalent. Lubrication flow rate should be 100 mL per month.
<i>Belts:</i>
Check that the belts have no cracks or any signs of folding or holes.
Check centring of belt and that the belts move in parallel.
Check the pin seams.
Check the seals and make sure they are not worn and that they are set correctly to prevent the sludge from spilling out from the sides of the machine.
<i>Belt Tensioning System:</i>
Check set pressure.
Check smooth operation of belt tensioning system (4 of).
Inspect for wear & tear of drive sprocket or toothed rack.
<i>Belt Correction System:</i>
Check condition of bellows.
Check smooth operation of correction system (2 of).
Check guide elements on belt tracking equipment.
Check condition of feeler rods.
<i>Pneumatic equipment:</i>
Check the pneumatic equipment for correct pressure.
Clean air filter.
Check all airlines for leaks.
<i>Rollers:</i>
Check for uneven wear on the rollers and that they are clean.
Check condition of rollers and coatings.

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MAJOR SERVICE
NOTES:
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Before isolating any equipment, check for unusual noise, vibration, leaks.
<i>Lubrication:</i>
Grease bearings (16 grease nipples) - mounting type SNL 209. Use Shell Alvania EP 2 or equivalent. 10 grams per lubrication point.
Grease bearings (24 grease nipples) - mounting type SNL 215. Use Shell Alvania EP 2 or equivalent. 20 grams per lubrication point.
Correction slide smooth surface (2 of) - Remove old grease. Apply new grease. Use Shell Alvania G 3 or equivalent.
Belt tensioner toothed rack and drive sprocket (4 of) – Remove old grease. Apply new grease. Use Shell Alvania G 3 or equivalent.
Top up oil - Pneumatic Circuit (lubrication point in circuit upstream of the SMX). Use VG 32 pneumatic oil or equivalent. Lubrication flow rate should be 100 mL per month.
<i>Belts:</i>
Check that the belts have no cracks or any signs of folding or holes.
Check centring of belt and that the belts move in parallel.
Check the pin seams.
Replace all side strips and adjust to belt.
<i>Belt Tensioner System:</i>
Check the set pressure.
Check smooth operation of belt tensioning system (4 of).
Inspect for wear & tear of drive sprocket or toothed rack.
<i>Belt Correction System:</i>
Check condition of bellows.
Check smooth operation of correction system (2 of).
Check guide elements on belt tracking equipment.
Check condition of feeler rods.
<i>Pneumatic equipment:</i>
Check the pneumatic equipment for correct pressure and no leaks.
Replace air filter.
Check all airlines for leaks.
<i>Rollers & Bearings:</i>
Check for uneven wear on the rollers and that they are clean.
Check condition of rollers and coatings.

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OVERHAUL
NOTES:
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Before isolating any equipment, check for unusual noise, vibration, leaks.
<i>Lubrication:</i>
Top up oil - Pneumatic Circuit (lubrication point in circuit upstream of the SMX). Use VG 32 pneumatic oil or equivalent. Lubrication flow rate should be 100 mL per month.
Correction slide smooth surface (2 of) - Remove old grease. Apply new grease. Use Shell Alvania G 3 or equivalent.
Belt tensioner toothed rack and drive sprocket (4 of) – Remove old grease. Apply new grease. Use Shell Alvania G 3 or equivalent.
<i>Belts:</i>
Check that the belts have no cracks or any signs of folding or holes.
Check centring of belt and that the belts move in parallel.
Check the pin seams.
Replace all side strips and adjust to belt.
Clean and check filter belt support for wear.
<i>Belt Tensioner System:</i>
Check the belt tension.
Check smooth operation of belt tensioning system (4 of).
Stroke belt tensioner full length and check for burrs on shaft and sleeves.
Inspect for wear & tear of drive sprocket or toothed rack.
<i>Belt Correction System:</i>
Check condition of bellows.
Check smooth operation of correction system (2 of).
Check guide elements on belt tracking equipment.
Check condition of feeler rods.
<i>Pneumatic equipment:</i>
Check the pneumatic equipment for correct pressure.
Replace air filter.
Check all air lines for leaks.
<i>Rollers & Bearings:</i>
Check for uneven wear on the rollers and that they are clean.
Check condition of rollers and coatings.

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	Renew all bearings.		
	Renew all bearing house seals.		
	<i>Scrapers:</i>		
	Clean scraper blades.		
	Check the scraping blades and make sure they are not notched, cracked or have uneven wear.		
	Check the contact pressure is correct – scraping blade.		
	<i>Distribution Blades:</i>		
	Check pressure of sludge on distribution blade.		
	<i>Wash System:</i>		
	Check the belt cleaning unit and wash ramps.		
	Remove and clean spray nozzles.		
	<i>Gear motor units:</i>		
	Check the gear motor(s) and make sure there are no leaks.		
	Check whether the gear motors are dirty (risk of overheating). Clean if required.		
	Replace oil – gear motor units. Check condition of old oil.		
	Apply grease to bearing cavities – gear motor unit drive. Use Klueber Petamo GHY 133N or equivalent. Fill bearing cavities between the rolling elements 2/3 full with grease when oil change is done (2 lubrication points)		
	<i>Frame, Platform and Handrail:</i>		
	Check support frame, body, safety mesh, handrails and platforms for corrosion or defects.		
	Remove frame for refurbishment if required.		