



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, reques to be submitted to Urban Utilities for approval before proceeding.
Before isolating any equipment, check for unusual noise, vibration, leaks.
Lubrication:
Grease bearings (16 grease nipples) - mounting type SNL 209. Use Shell Alvania EP 2 or equivalent. 10 grams pellubrication point.
Grease bearings (24 grease nipples) - mounting type SNL 215. Use Shell Alvania EP 2 or equivalent. 20 grams pellubrication point.
Correction slide smooth surface (2 of) - Remove old grease. Apply new grease. Use Shell Alvania G 3 or equivaler
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.
Belts:
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.
Belt Tensioning System:
Check set pressure.
Check smooth operation of belt tensioning system (4 of).
Inspect for wear & tear of drive sprocket or toothed rack.
Belt Correction System:
Check condition of bellows.
Check smooth operation of correction system (2 of).
Check guide elements on belt tracking equipment.
Check condition of feeler rods.
Pneumatic equipment:
Check the pneumatic equipment for correct pressure.
Clean air filter.
Check all airlines for leaks.
Rollers:
Check for uneven wear on the rollers and that they are clean.
Check condition of rollers and coatings.
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LOCATION:		STANDARD JOB No.:	

Scrapers:
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.
Distribution Blades:
Check pressure of sludge on distribution blade.
Wash System:
Check the belt cleaning unit and wash ramps.
Inspect washing spray nozzles. Check operating pressure of wash water. Remove and clean if blocked.
Gear motor units:
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.
Check oil level – gear motor units. Visually check condition of oil.

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

MAJOR SERVICE	
NOTES:	
Minor repairs and/or additional replacements other than already documented can be undertaken, how to be submitted to Urban Utilities for approval before proceeding.	ever, reques
Before isolating any equipment, check for unusual noise, vibration, leaks.	
Lubrication:	
Grease bearings (16 grease nipples) - mounting type SNL 209. Use Shell Alvania EP 2 or equivalent. lubrication point.	
Grease bearings (24 grease nipples) - mounting type SNL 215. Use Shell Alvania EP 2 or equivalent. lubrication point.	20 grams pe
Correction slide smooth surface (2 of) - Remove old grease. Apply new grease. Use Shell Alvania G 3	3 or equivaler
Belt tensioner toothed rack and drive sprocket (4 of) – Remove old grease. Apply new grease. Use St 3 or equivalent.	
Top up oil - Pneumatic Circuit (lubrication point in circuit upstream of the SMX). Use VG 32 pneumatic equivalent. Lubrication flow rate should be 100 mL per month.	c oil or
Belts:	
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.	
Belt Tensioner System:	
Check the set pressure.	
Check smooth operation of belt tensioning system (4 of).	
Inspect for wear & tear of drive sprocket or toothed rack.	
Belt Correction System:	
Check condition of bellows.	
Check smooth operation of correction system (2 of).	
Check guide elements on belt tracking equipment.	
Check condition of feeler rods.	
Pneumatic equipment:	
Check the pneumatic equipment for correct pressure and no leaks.	
Replace air filter.	
Check all airlines for leaks.	
Rollers & Bearings:	
Check for uneven wear on the rollers and that they are clean.	
Check condition of rollers and coatings.	

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

Remove bearing caps and inspect condition of bearings.
Check for water ingress and signs of corrosion on the bearings.
Check all bearing housing seals for defects.
Clean and check filter belt support for wear.
Scrapers:
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.
Distribution Blades:
Check pressure of sludge on distribution blade.
Wash System:
Check the belt cleaning unit and wash ramps.
Inspect washing spray nozzles. Check operating pressure of wash water. Remove and clean if blocked.
Gear motor units:
Check the gear motor(s) and make sure there are no leaks.
Check whether the gear motors are dirty (risk of overheating).
Replace oil – gear motor units. Check condition of old oil.
Apply grease to bearing cavities – gear motor unit drives. 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)
Frame, Platform, Handrail:
Check support frame, body, safety mesh, handrails and platforms for corrosion or defects.

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LOCATION:		STANDARD JOB No.:	

OVERHALII	
OVERHAUL	
NOTES:	
Minor repairs ar	nd/or additional replacements other than already documented can be undertaken, however, ubmitted to Urban Utilities for approval before proceeding.
	any equipment, check for unusual noise, vibration, leaks.
Lubrication:	
	umatic Circuit (lubrication point in circuit upstream of the SMX). Use VG 32 pneumatic oil or ication flow rate should be 100 mL per month.
	smooth surface (2 of) - Remove old grease. Apply new grease. Use Shell Alvania G 3 or equival
Belt tensioner to 3 or equivalent.	othed rack and drive sprocket (4 of) – Remove old grease. Apply new grease. Use Shell Alvania
Belts:	
Check that the b	elts have no cracks or any signs of folding or holes.
	of belt and that the belts move in parallel.
Check the pin se	eams.
Replace all side	strips and adjust to belt.
Clean and check	filter belt support for wear.
Belt Tensioner S	System:
Check the belt to	ension.
Check smooth o	peration of belt tensioning system (4 of).
Stroke belt tensi	oner full length and check for burrs on shaft and sleeves.
Inspect for wear	& tear of drive sprocket or toothed rack.
Belt Correction S	System:
Check condition	of bellows.
Check smooth o	peration of correction system (2 of).
Check guide ele	ments on belt tracking equipment.
Check condition	of feeler rods.
Pneumatic equip	oment:
Check the pneur	matic equipment for correct pressure.
Replace air filter	<u> </u>
Check all air line	s for leaks.
Rollers & Bearin	gs:
Check for uneve	n wear on the rollers and that they are clean.
Check condition	of rollers and coatings.

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

Κŧ	enew all bearings.
Re	enew all bearing house seals.
Sc	crapers:
CI	ean scraper blades.
Cr	neck the scraping blades and make sure they are not notched, cracked or have uneven wear.
Cł	neck the contact pressure is correct – scraping blade.
Di	stribution Blades:
Cł	neck pressure of sludge on distribution blade.
W	ash System:
Cł	neck the belt cleaning unit and wash ramps.
Re	emove and clean spray nozzles.
Ge	ear motor units:
Cł	neck the gear motor(s) and make sure there are no leaks.
Cł	neck whether the gear motors are dirty (risk of overheating). Clean if required.
	eplace oil – gear motor units. Check condition of old oil.
	oply grease to bearing cavities – gear motor unit drive. Use Klueber Petamo GHY 133N or equivalent. Fill bearin vities between the rolling elements 2/3 full with grease when oil change is done (2 lubrication points)
Fr	ame, Platform and Handrail:
Cł	neck support frame, body, safety mesh, handrails and platforms for corrosion or defects.
	emove frame for refurbishment if required.

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