



DESCRIPTION:	Mechanical – ST041 Gravity Drainage Deck 1 – Inspection and Service	FREQUENCY:	
LOCATION:		STANDARD JOB No.:	

SCOPE Complete inspection and service of gravity deck. Applies to Andritz PDXL 2500 (without automatic lubrication) REQUIREMENTS
Complete inspection and service of gravity deck. Applies to Andritz PDXL 2500 (without automatic lubrication) REQUIREMENTS
Applies to Andritz PDXL 2500 (without automatic lubrication) REQUIREMENTS
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 (4 grease nipples) – mounting type SNL 209. Use Shell Alvania EP2 or equivalent. 10 grams per ubrication point.
Grease bearings (2 grease nipples) – mounting type SNL 217. Use Shell Alvania EP2 or equivalent. 25 grams per ubrication point.
Regulating 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 (2 of) – Remove old grease. Apply new grease. Use Shell Alvania G 3 or equivalent.
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.
Lubrication:
Grease bearings (4 grease nipples) – mounting type SNL 209. Use Shell Alvania EP2 or equivalent. 10 grams per lubrication point.
Grease bearings (2 grease nipples) – mounting type SNL 217. Use Shell Alvania EP2 or equivalent. 25 grams per lubrication point.
Regulating 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 (2 of) – Remove old grease. Apply new grease. Use Shell Alvania G 3 or equivalent.
Belt:
Check the belt has no cracks or any signs of folding or holes.
Check the pin seam.
Check that the belt is running in a central position through the machine.
Check the sealing strips (gravity zone) for wear and ensure they have the correct setting to prevent sludge from escaping at 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 Regulating System:
Check condition of bellows.
Check smooth operation of regulating system (2 of).
Check guide elements of belt tracking equipment.
Check condition of feeler rods.
Pneumatic Equipment:
Check the pneumatic equipment for correct pressure.
Check pneumatic equipment for leaks.
Rollers:
Check all rollers for uneven wear and to ensure they are clean.
Check all rollers for condition and integrity of surface coatings.
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DESCRIPTION:	Mechanical – ST041 Gravity Drainage Deck 1 – Inspection and Service	FREQUENCY:	
LOCATION:		STANDARD JOB No.:	

Deflector Blades:
Check the deflector blades for flaking, cracks, uneven wear, as well as checking the correct contact pressure.
Wash Systems:
Check the belt cleaning unit: shower nozzles for correct operation. Remove and clean if blocked.
Gear motor unit:
Check the gear motor and make sure there are no leaks.
Check whether the motors or gearbox are dirty (risk of overheating). Clean if required.
Check oil level. Visually check condition of oil.

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DESCRIPTION:	Mechanical – ST041 Gravity Drainage Deck 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, however, requito be submitted to Urban Utilities for approval before proceeding.	uest
Before isolating any equipment, check for unusual noise, vibration, leaks.	
Lubrication:	
Grease bearings (4 grease nipples) – mounting type SNL 209. Use Shell Alvania EP2 or equivalent. 10 grams lubrication point.	-
Grease bearings (2 grease nipples) – mounting type SNL 217. Use Shell Alvania EP2 or equivalent. 25 grams lubrication point.	per
Regulating 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 (2 of) – Remove old grease. Apply new grease. Use Shell Alvan 3 or equivalent.	a G
Belt:	
Check that the belts have no cracks or any signs of folding or holes.	
Check the pin seam.	
Check that the belt is running in a central position through the machine.	
Replace all side seal strips and adjust to belt.	
Belt Tensioning 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 Regulating System:	
Check condition of bellows.	
Check smooth operation of regulating system (2 of).	
Check guide elements on belt tracking equipment.	
Check condition of feeler rods.	
Pneumatic Equipment:	
Replace air filter.	
Check the pneumatic equipment for correction operation.	
Check pneumatic equipment for leaks.	
Rollers & Bearings:	
Check all rollers for uneven wear and to ensure they are clean.	
Check all rollers for condition and integrity of surface coatings.	
Remove bearings caps and inspect condition of bearings.	

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DESCRIPTION:	Mechanical – ST041 Gravity Drainage Deck 1 – Inspection and Service	FREQUENCY:	
LOCATION:		STANDARD JOB No.:	

Check for water ingress and signs of corrosion on the bearings.
Check all bearing housing seals for defects.
Check condition of bearing housing.
Deflector Blades:
Check the deflector blades for flaking, cracks, uneven wear
Check for correct contact pressure.
Wash Systems:
Remove and clean all wash spray nozzles.
Gear Motor Unit:
Check the gearbox for leaks.
Check whether the motors or gearbox are dirty (risk of overheating)
Replace oil – gear motor unit. 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)
Frame, Platform and Handrail:
Check support frame, body, safety mesh, handrails and platforms for corrosion or defects.

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LOCATION:		STANDARD JOB No.:	

Before	isolating any equipment, check for unusual noise, vibration, leaks.
NOTES	
	epairs and/or additional replacements other than already documented can be undertaken, however, req ubmitted to Urban Utilities for approval before proceeding.
Before	isolating any equipment, check for unusual noise, vibration, leaks.
Lubrica	
lubricat	bearings (4 grease nipples) – mounting type SNL 209. Use Shell Alvania EP2 or equivalent. 10 grams ion point.
lubricat	bearings (2 grease nipples) – mounting type SNL 217. Use Shell Alvania EP2 or equivalent. 25 grams ion point.
Regulat equival	ting slide smooth surface (2 of) – Remove old grease. Apply new grease. Use Shell Alvania G 3 or ent.
	nsioner toothed rack and drive sprocket (2 of) – Remove old grease. Apply new grease. Use Shell Alvani uivalent.
Belt:	
	the belt for cracks, signs of folding, and holes
	the pin seam
	that the belt is running in a central position through the machine
	e all side seal strips and adjust to belt
Belt Te	nsioning System:
	the belt tension.
	smooth operation of belt tensioning system (4 of).
	belt tensioner full length and check for burrs on shaft and sleeves.
	for wear of drive sprocket or toothed rack.
	gulating System:
	condition of bellows.
	smooth operation of regulating system (2 of).
	guide elements on belt tracking equipment.
Check	condition of feeler rods.
Pneum	atic Equipment:
Check t	the pneumatic equipment (belt guiding) for leaks, correct displays and leaks.
Check	pneumatic equipment for leaks.
1	e air filter.

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DESCRIPTION:	Mechanical – ST041 Gravity Drainage Deck 1 – Inspection and Service	FREQUENCY:	
LOCATION:		STANDARD JOB No.:	

Rolle	ers & Bearings:
Chec	ck all rolls for uneven wear and to ensure they are clean.
Chec	ck all rollers for condition and integrity of surface coatings.
Rene	ew all bearings.
Chec	ck all bearing housing seals for defects / missing.
Chec	ck condition of bearing housing.
Defle	ector Blades:
Chec	ck the deflector blades for flaking, cracks, uneven wear, as well as checking the correct contact pressure
Wash	h Systems:
Chec	ck the belt cleaning unit: clean all wash nozzles. Check for correct operation.
Gear	Motor Unit:
Chec	ck the gearbox for leaks.
Chec	ck whether the motors or gearbox are dirty (risk of overheating)
Apply	ace oil – gear motor unit. Check condition of old oil. y grease to bearing cavities – gear motor unit drive. Use Klueber Petamo GHY 133N or equivalent. Fill bearir ies between the rolling elements 2/3 full with grease when oil change is done (2 lubrication points)
Fram	ne, Platform and Handrail:
Chec	ck support frame, body, safety mesh, handrails and platforms for corrosion or defects.
Remo	ove frame for refurbishment if required.

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