

<b>DESCRIPTION:</b>	Mechanical – ST018 Alfa Laval Centrifuge – Inspection and Service	<b>FREQUENCY:</b>	
<b>LOCATION:</b>		<b>STANDARD JOB No.:</b>	

	<b>SCOPE</b>
	Complete inspection and service of centrifuge as per relevant task list.
	<b>REQUIREMENTS</b>
	Where possible, observe equipment in running condition prior to isolating. Check for correct operation.
	Minor repairs and/or additional replacements other than already documented can be undertaken as part of the Major Service, however, request to be submitted to Urban Utilities for approval before proceeding.
	<b>MATERIALS</b>
	<b>Main Bearing Grease:</b> SKF LGHP 2 or equivalent*
	<b>Conveyor Bearing Grease:</b> Anderol FGCS-2 or equivalent*
	<b>Gearbox Oil:</b> Statoil Mereta 320 or equivalent*
	<b>Motors:</b> Castrol AP3 grease or equivalent*
	<i>*Equivalents can be used but must be documented for future use. This is to avoid the use of multiple lubricants in application.</i>
	<b>Wear Liner and Tiles</b>
	Alfa Laval P/N 6124366601 WEAR LINER EU KR16 NX4450
	Alfa Laval P/N 6124004581 TILE ASSY, COBOLT 45Pcs
	<b>LUBRICATION</b>
	Check centrifuge for noise, leaks, vibration. Report any abnormalities.
	Shut down and isolate the centrifuge.
	Undo the 8 cover bolts and lift centrifuge cover.
	Inspect grease level in Main Bearing auto-lube reservoir and top up as required. Use SKF LGHP 2 or equivalent.
	Inject 10 shots of grease to each nipple on the front and back-end drives of the Conveyor Bearings. Use Anderol FGCS-2 or equivalent.
	Reinstate the centrifuge cover and return to service.

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	<b>MINOR SERVICE</b>
	Check centrifuge for noise, leaks, vibration. Report any abnormalities.
	Shut down and isolate the centrifuge.
	Undo the 8 cover bolts and lift centrifuge cover.
	Inspect grease level in Main Bearing auto-lube reservoir and top up as required. Use SKF LGHP 2 or equivalent.
	Inject 10 shots of grease to each nipple on the front and back-end drives of the Conveyor Bearings. Use Anderol FGCS-2 or equivalent.
	Check gearbox oil level. Check seals for oil leaks.
	Lubricate the motor – main drive and back drive. Use 3 shots of Castrol AP3 grease or equivalent.
	Check condition of wear protection on solids discharge
	Check for accumulated solids and clean central compartment
	Reinstate the centrifuge cover and return to service.
	Clean and wash down the sludge inside the slide gate housing.
	<b>INTERMEDIATE SERVICE</b>
	Before isolating, check for unusual noise, leaks, vibration. Report any abnormalities.
	Check condition of nameplate and warning labels
	Shut down and isolate the centrifuge.
	Undo the 8 cover bolts and lift centrifuge cover.
	Inspect grease level in Main Bearing auto-lube reservoir and top up as required. Use SKF LGHP 2 or equivalent.
	Inject 10 shots of grease to each nipple on the front and back-end drives of the Conveyor Bearings. Use Anderol FGCS-2 or equivalent
	Check gearbox oil level. Check seals for oil leaks.
	Drain and refill gearbox oil. Use Statoil Mereta 320 or equivalent.
	Lubricate the motor – main drive and back drive. Use 3 shots of Castrol AP3 grease or equivalent.
	Check condition of wear protection on solids discharge
	Check for accumulated solids and clean central compartment
	Check bowl assembly for external wear or corrosion
	Inspect bolts between major bowl sections (conical, cylindrical and end hubs) for corrosion and wear
	Check condition of vibration dampeners
	Check V-belt tension, wear / tear and retighten
	Check tightness of foundation bolts
	Reinstate the centrifuge cover and return to service

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	<b>MAJOR SERVICE</b>
	<i>**Tasks below are in no particular order**</i>
	<i>**Note: If liner or tiles require replacement use heavy duty Alfa Laval parts as listed in the materials**</i>
	Before isolating, check centrifuge for unusual noise, leaks, vibration. Report any abnormalities
	Check condition of nameplate and warning labels
	Visual inspection of machine
	Check for accumulated solids and clean central compartment
	Remove covers and rotating assembly from frame
	Remove gearbox, small and large end piece from drum
	Remove conveyor from drum
	Inspect conveyor for wear or corrosion
	Dismantle end hubs front and rear and replace bearings and seals as per service kits
	Inspect for wear between conveyor and drum
	Thorough inspection of bowl assembly for wear and corrosion
	Inspect bolts between major bowl sections (conical, cylindrical and end hubs) for corrosion and wear
	Inspect condition of conveyor core discharge area
	Check condition of drive belts and vibration mounts
	Check condition and operation of slide gate
	Check condition of any other internal parts not already documented in task list
	Re-assemble conveyor into drum, replacing bearing and seals parts as per service kits
	Check and adjust as necessary axial clearance between conveyor and drum
	Refit complete rotating assembly into frame
	Fit repair service kit for the gearbox including all bearings and seals
	Lubricate gearbox splines
	Refit gearbox to rotating assembly, check axial and radial alignment
	Drain and refill gearbox oil. Use Statoil Mereta 320 or equivalent.
	Inspect grease level in Main Bearing auto-lube reservoir and top up as required. Use SKF LGHP 2 or equivalent.
	Inject 10 shots of grease to each nipple on the front and back-end drives of the Conveyor Bearings. Use Anderol FGCS-2 or equivalent.
	Lubricate the motor – main drive and back drive. Use 3 shots of Castrol AP3 grease or equivalent.
	Reinstate the centrifuge cover
	Check tightness of foundation bolts
	Test run machine and check vibration levels
	Prepare and submit service report