

DESCRIPTION:	12 Monthly Zone 1 Lubrication Maintenance	FREQUENCY:	12 Monthly
LOCATION:	ST18 Luggage Point WRP	STD JOB ID:	LTS029

Grease and Oils Required	Maintenance Group
Castrol AP3 Grease	Grit Dredger 1
Castrol EPL2 Grease	Grit Dredger 2
Castrol Mollub Alloy 936SF Open Gear Grease	PST Bridges 1A, 1B, 2A, 2B, 5 & 6
Castrol EPX 80W-90	Raw Sludge Pumps 1 to 6
Castrol Hyspin AWS68 (Tellus 68)	Formic Acid Dosing Pump
Castrol Alpha SP320 (Omala 320)	Effluent Water Pumps
Castrol Alpha SP680 (Omala 680)	
Dry Lube Spray	
Rockdrill Compound 750	
Castrol Hyspin AWH100	
Castrol Alpha SP220	
Procedural Steps	
Grit Dredger 1	
Grit Dredger Bridge Assembly	
Grease all wheel bearings on drive shaft (2 each side) with EPL2 Grease	
Grease all bogey wheel bearings with EPL2 Grease	
Pump	
Grease motor bearing with 2 shots of AP3 grease.	
Check drive belt tension and condition.	
Remove belts and check condition of belts and pump / motor pulleys.	
Remove back plate cover assembly and before removing element, apply pressure (up, down, sideways, in and out) to pump shaft to ascertain any bearing or bearing housing wear.	
Remove pump element and check wear plate, impeller and internal housing for wear & tear and/or damage.	
Measure clearance between impeller & wear plate. Add or remove shims so clearance is within manufacture's tolerances.	
Replace oil with Castrol Hyspin AWH100 checking for contaminates.	
Assemble and tension belts.	
Travel Drive	
Change travel drive gearbox oil with SP320.	
Grit Hopper	
Grease Hopper Valve shaft spindle with Mollub Alloy 936SF grease.	
Grit Dredger 2	
Grit Dredger Bridge Assembly	
Grease all wheel bearings on drive shaft (2 each side) with EPL2 Grease	
Grease all bogey wheel bearings with EPL2 Grease	

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Pump
Grease motor bearing with 2 shots of AP3 grease.
Check drive belt tension and condition.
Remove belts and check condition of belts and pump / motor pulleys.
Remove back plate cover assembly and before removing element, apply pressure (up, down, sideways, in and out) to pump shaft to ascertain any bearing or bearing housing wear.
Remove pump element and check wear plate, impeller and internal housing for wear & tear and/or damage.
Measure clearance between impeller & wear plate. Add or remove shims so clearance is within manufacture's tolerances.
Replace oil with Castrol Hyspin AWH100 checking for contaminates.
Assemble and tension belts.
Travel Drive
Change travel drive gearbox oil with SP320.
Grit Hopper
Grease Hopper Valve shaft spindle with Mollub Alloy 936SF grease.
PST Bridges 1A, 1B.
Check grease level in auto greaser canister and top up with EPL2 grease if required.
Check grease lines for leaks and defects
Remove Main Support Wheels bearing covers and check grease is being injected by auto greaser. If necessary remove grease lines and check flow of grease and for hardening of grease in the lines. Clean and recharge lines if necessary. ***Note - Boat or pontoon may be required for inside wheels.***
Change oil in Main Drive Gearbox with Alpha SP320
Remove guard and check condition of Motor to Main Drive Gearbox couplings.
Change Cable Reeler gearbox oil with EPX 80W-90
Check condition of Cable Reeler couplings.
Lubricate Draw Off valves spindle with Mollub Alloy Open Gear Grease. 1A (2 of)
Lubricate Draw Off valves spindle with Mollub Alloy Open Gear Grease. 1B (2 of)
Inlet Penstock 1A
Fill Auto Lube with AP2 grease
Inlet Penstock 1B
Fill Auto Lube with AP2 grease
Outlet Penstock 1A
Fill Auto Lube with AP2 grease

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Outlet Penstock 1B
Fill Auto Lube with AP2 grease
Scraper Hoist 1A
Change oil in Scraper Hoist Gearbox with Alpha SP320.
Remove guard and check condition of Motor to Gearbox couplings.
Lubricate drive sprockets and drive chain with Mollub Alloy open gear grease.
Visual inspect lifter shaft bearings and blocks for defects.
Lubricate adjusting arm pivot points with Dry Lube Spray.
Scraper Hoist 1B
Change oil in Scraper Hoist Gearbox with Alpha SP320.
Remove guard and check condition of Motor to Gearbox couplings.
Lubricate drive sprockets and drive chain with Mollub Alloy open gear grease.
Visual inspect lifter shaft bearings and blocks for defects.
Lubricate adjusting arm pivot points with Dry Lube Spray.
Side Scrapers 1A
Change oil in Scraper Drive Gearbox with Alpha SP320
Remove coupling cover and check condition of couplings and rubbers
Lubricate chains and adjusting screws Mollub Alloy open gear grease
Grease idler sprocket bearings with EPL2 Grease
Grease chain tensioner bearings with EPL2 Grease
Lubricate adjusting arm pivot points with Dry Lube Spray
Check guide and support wheels for operation and condition.
Side Scrapers 1B
Change oil in Scraper Drive Gearbox with Alpha SP320
Remove coupling cover and check condition of couplings and rubbers
Lubricate chains and adjusting screws Mollub Alloy open gear grease
Grease idler sprocket bearings with EPL2 Grease
Grease chain tensioner bearings with EPL2 Grease
Lubricate adjusting arm pivot points with Dry Lube Spray
Check guide and support wheels for operation and condition.

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	PST Bridges 2A, 2B.
	Check grease level in auto greaser canister and top up with EPL2 grease if required.
	Check grease lines for leaks and defects
	Remove Main Support Wheels bearing covers and check grease is being injected by auto greaser. If necessary remove grease lines and check flow of grease and for hardening of grease in the lines. Clean and recharge lines if necessary. ***Note - Boat or pontoon may be required for inside wheels.***
	Change oil in Main Drive Gearbox with Alpha SP320
	Remove guard and check condition of Motor to Main Drive Gearbox couplings.
	Change Cable Reeler gearbox oil with EPX 80W-90
	Check condition of Cable Reeler couplings.
	Lubricate Draw Off valves spindle with Mollub Alloy Open Gear Grease. 1A (3 of)
	Lubricate Draw Off valves spindle with Mollub Alloy Open Gear Grease. 1B (3 of)
	Inlet Penstock 2A
	Fill Auto Lube with AP2 grease
	Inlet Penstock 2B
	Fill Auto Lube with AP2 grease
	Outlet Penstock 2A
	Fill Auto Lube with AP2 grease
	Outlet Penstock 2B
	Fill Auto Lube with AP2 grease
	Scraper Hoist 2A
	Change oil in Scraper Hoist Gearbox with Alpha SP320.
	Remove guard and check condition of Motor to Gearbox couplings.
	Lubricate drive sprockets and drive chain with Mollub Alloy open gear grease.
	Visual inspect lifter shaft bearings and blocks for defects.
	Lubricate adjusting arm pivot points with Dry Lube Spray.
	Scraper Hoist 2B
	Change oil in Scraper Hoist Gearbox with Alpha SP320.
	Remove guard and check condition of Motor to Gearbox couplings.
	Lubricate drive sprockets and drive chain with Mollub Alloy open gear grease.
	Visual inspect lifter shaft bearings and blocks for defects.
	Lubricate adjusting arm pivot points with Dry Lube Spray.

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Side Scrapers 2A
Change oil in Scraper Drive Gearbox with Alpha SP320
Remove coupling cover and check condition of couplings and rubbers
Lubricate chains and adjusting screws Mollub Alloy open gear grease
Grease idler sprocket bearings with EPL2 Grease
Grease chain tensioner bearings with EPL2 Grease
Lubricate adjusting arm pivot points with Dry Lube Spray
Check guide and support wheels for operation and condition.
Side Scrapers 2B
Change oil in Scraper Drive Gearbox with Alpha SP320
Remove coupling cover and check condition of couplings and rubbers
Lubricate chains and adjusting screws Mollub Alloy open gear grease
Grease idler sprocket bearings with EPL2 Grease
Grease chain tensioner bearings with EPL2 Grease
Lubricate adjusting arm pivot points with Dry Lube Spray
Check guide and support wheels for operation and condition.
PST Bridge 5
Remove Main Support Wheel bearing covers. Check grease for contamination and repack if required with EPL2 grease
Grease drive sprocket bearings with EPL2
Grease main drive shaft bearings with EPL2
Change oil in Main Drive Gearbox with Alpha SP220
Grease drive shaft bearings with EPL2 Grease.
Change cable reeler gearbox oil with EPX 80W-90
Check condition of cable reeler couplings.
Lubricate Draw Off valve spindles with Mollub Alloy Open Gear Grease. (3 of)
Inlet Penstock
Fill Auto Lube with AP2 grease
Outlet Penstock
Fill Auto Lube with AP2 grease

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	Scraper Hoist
	Change oil in Scraper Hoist Gearbox with Alpha SP320.
	Inspect lifter shaft bearings and grease with EPL2 grease.
	Side Scrapers
	Change oil in Scraper Drive Gearbox with Alpha SP320
	Remove coupling cover and check condition of couplings and rubbers.
	Lubricate chains and adjusting screws Mollub Alloy open gear grease
	Grease idler sprocket bearings with EPL2 Grease
	Grease chain tensioner bearings with EPL2 Grease
	Grease scraper lift ramp rollers with EPL2 grease
	Grease main drive sprocket bearings with EPL2 grease.
	Grease main support wheel bearings with EPL2 grease.
	PST Bridge 6
	Remove Main Support Wheel bearing covers. Check grease for contamination and repack if required with EPL2 grease
	Grease drive sprocket bearings using with EPL2
	Grease main drive shaft bearings using with EPL2
	Change oil in Main Drive Gearbox with Alpha SP220
	Grease drive shaft bearings with EPL2 Grease.
	Change cable reeler gearbox oil with EPX 80W-90
	Check condition of cable reeler couplings.
	Lubricate Draw Off valve spindles with Mollub Alloy Open Gear Grease. (3 of)
	Inlet Penstock
	Fill Auto Lube with AP2 grease
	Outlet Penstock
	Fill Auto Lube with AP2 grease
	Scraper Hoist
	Change oil in Scraper Hoist Gearbox with Alpha SP320.
	Inspect lifter shaft bearings and grease with EPL2 grease.

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Side Scrapers
Change oil in Scraper Drive Gearbox with Alpha SP320
Remove coupling cover and check condition of couplings and rubbers.
Lubricate chains and adjusting screws Mollub Alloy open gear grease
Grease idler sprocket bearings with EPL2 Grease
Grease chain tensioner bearings with EPL2 Grease
Grease scraper lift ramp rollers with EPL2 grease
Grease main drive sprocket bearings with EPL2 grease.
Grease main support wheel bearings with EPL2 grease.
Effluent Water Pump Unit 1
Grease Pumps and Motors 6 –8 shots of AP3 grease
Remove coupling guard and check condition of couplings and rubbers.
Effluent Water Pump Unit 2
Grease Pumps and Motors 6 –8 shots of AP3 grease
Remove coupling guard and check condition of couplings and rubbers.
Formic Acid Dosing Pump
Change oil with EPX 80W-90
Raw Sludge Pump 1
Isolate pump and Remove Back Cover Plate Assembly and check wear plate condition. Measure clearance between impeller & Wear plate.
Check impeller and internal housing for wear & tear and/or damage.
Replace Back Cover Plate Assembly utilising shims on Pump Element so clearance is within manufacturer's tolerances.
Remove coupling guard and check condition of couplings and rubbers.
Replace oil with Castrol Hyspin AWH100 checking for contaminates.
Raw Sludge Pump 2
Isolate pump and Remove Back Cover Plate Assembly and check wear plate condition. Measure clearance between impeller & Wear plate.
Check impeller and internal housing for wear & tear and/or damage.
Replace Back Cover Plate Assembly utilising shims on Pump Element so clearance is within manufacturer's tolerances.
Remove coupling guard and check condition of couplings and rubbers.
Replace oil with Castrol Hyspin AWH100 checking for contaminates.

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	Raw Sludge Pump 3
	Isolate pump and Remove Back Cover Plate Assembly and check wear plate condition. Measure clearance between impeller & Wear plate.
	Check impeller and internal housing for wear & tear and/or damage.
	Replace Back Cover Plate Assembly utilising shims on Pump Element so clearance is within manufacturer's tolerances.
	Remove coupling guard and check condition of couplings and rubbers.
	Replace oil with Castrol Hyspin AWH100 checking for contaminates.
	Raw Sludge Pump 4
	Isolate pump and Remove Back Cover Plate Assembly and check wear plate condition. Measure clearance between impeller & Wear plate.
	Check impeller and internal housing for wear & tear and/or damage.
	Replace Back Cover Plate Assembly utilising shims on Pump Element so clearance is within manufacturer's tolerances.
	Remove coupling guard and check condition of couplings and rubbers.
	Replace oil with Castrol Hyspin AWH100 checking for contaminates.
	Raw Sludge Pump 5
	Isolate pump and Remove Back Cover Plate Assembly and check wear plate condition. Measure clearance between impeller & Wear plate.
	Check impeller and internal housing for wear & tear and/or damage.
	Replace Back Cover Plate Assembly utilising shims on Pump Element so clearance is within manufacturer's tolerances.
	Remove coupling guard and check condition of couplings and rubbers.
	Replace oil with Castrol Hyspin AWH100 checking for contaminates.
	Raw Sludge Pump 6
	Isolate pump and Remove Back Cover Plate Assembly and check wear plate condition. Measure clearance between impeller & Wear plate.
	Check impeller and internal housing for wear & tear and/or damage.
	Replace Back Cover Plate Assembly utilising shims on Pump Element so clearance is within manufacturer's tolerances.
	Remove coupling guard and check condition of couplings and rubbers.
	Replace oil with Castrol Hyspin AWH100 checking for contaminates.