

Grease and Oils Required		Maintenance Group
Castrol AP3 Grease		Grit Dredger 1
Castrol EPL2 Grease		Grit Dredger 2
Castrol Mollub Alloy 936SF Op	en 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 Assemb	ly	
Grease all wheel bearings on o	drive shaft (2 each si	ide) with EPL2 Grease
Grease all bogey wheel bearin	gs with EPL2 Greas	е
Pump		
Grease motor bearing with 2 s	hots of AP3 grease.	
Check drive belt tension and c	ondition.	
Remove belts and check cond		
Remove back plate cover asset to pump shaft to ascertain any		moving element, apply pressure (up, down, sideways, in and conousing wear.
Remove pump element and ch		eller and internal housing for wear & tear and/or damage.
	nnallar & waar plata	. Add or remove shims so clearance is within manufacture's
	ripeliei & wear plate.	. Add of femore shims so olearance is within manaractic s
tolerances.		
tolerances. Replace oil with Castrol Hyspir		
tolerances.		
tolerances. Replace oil with Castrol Hyspir Assemble and tension belts.		
tolerances. Replace oil with Castrol Hyspir Assemble and tension belts. Travel Drive	n AWH100 checking	
tolerances. Replace oil with Castrol Hyspir Assemble and tension belts.	n AWH100 checking	
tolerances. Replace oil with Castrol Hyspir Assemble and tension belts. Travel Drive Change travel drive gearbox o	n AWH100 checking	
tolerances. Replace oil with Castrol Hyspir Assemble and tension belts. Travel Drive Change travel drive gearbox o Grit Hopper	n AWH100 checking	for contaminates.
tolerances. Replace oil with Castrol Hyspir Assemble and tension belts. Travel Drive Change travel drive gearbox o Grit Hopper	n AWH100 checking	for contaminates.
tolerances. Replace oil with Castrol Hyspir Assemble and tension belts. Travel Drive Change travel drive gearbox o	n AWH100 checking	for contaminates.
tolerances. Replace oil with Castrol Hyspir Assemble and tension belts. Travel Drive Change travel drive gearbox o Grit Hopper Grease Hopper Valve shaft sp	il with SP320.	for contaminates.
tolerances. Replace oil with Castrol Hyspir Assemble and tension belts. Travel Drive Change travel drive gearbox o Grit Hopper Grease Hopper Valve shaft sp	il with SP320.	for contaminates. by 936SF grease.

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CATION:	5116 Luggage Foliit WKF	310 101	э ір;	L13029
Pump				
	earing with 2 shots of AP3 grease.			
	tension and condition.			
	nd check condition of belts and pump / motor p	ullevs.		
Remove back pl	ate cover assembly and before removing elem ascertain any bearing or bearing housing wea	ent, apply pressure	(up, dow	n, sideways, in and o
Remove pump e	element and check wear plate, impeller and inte	ernal housing for we	ear & tear	and/or damage.
	nce between impeller & wear plate. Add or rem			
Replace oil with	Castrol Hyspin AWH100 checking for contamin	nates.		
Assemble and te	ension belts.			
Travel Drive				
Travel Drive	· · · · · · · · · · · · · · · · · · ·			
Change travel di	rive gearbox oil with SP320.			
Grit Hopper				
Grease Hopper	Valve shaft spindle with Mollub Alloy 936SF gr	ease.		
PST Bridges 1A	, 1В.			
Check grease le	vel in auto greaser canister and top up with EF	L2 grease if require	ed.	
	nes for leaks and defects			
Remove Main Seremove grease I	upport Wheels bearing covers and check greas ines and check flow of grease and for hardenir ote - Boat or pontoon may be required for insid	ng of grease in the l	by auto g lines. Clea	reaser. If necessary in and recharge lines
	ain Drive Gearbox with Alpha SP320			
	and check condition of Motor to Main Drive Gea	arbox couplings.		
	Reeler gearbox oil with EPX 80W-90	ger		
	of Cable Reeler couplings.			
	Off valves spindle with Mollub Alloy Open Gear	Grease, 1A (2 of)		
	Off valves spindle with Mollub Alloy Open Gear			
Inlet Penstock	1A			
Fill Auto Lube wi	th AP2 grease			
Inlet Penstock				
IFill Auto Lube wi	ith AP2 grease			
/ tataa.a.				
Outlet Penstocl				

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Outlet Penstock	1B		
Fill Auto Lube wit	h AP2 grease		
Scraper Hoist 1	4		
Change oil in Scr	aper Hoist Gearbox with Alpha SP320.		
Remove guard a	nd check condition of Motor to Gearbox cou	olings.	
Lubricate drive sp	prockets and drive chain with Mollub Alloy op	oen gear grease.	
Visual inspect lift	er shaft bearings and blocks for defects.		
Lubricate adjustir	ng arm pivot points with Dry Lube Spray.		
Scraper Hoist 11			
	aper Hoist Gearbox with Alpha SP320.		
	nd check condition of Motor to Gearbox coup		
	prockets and drive chain with Mollub Alloy op	oen gear grease.	
•	er shaft bearings and blocks for defects.		
Lubricate adjustir	ng arm pivot points with Dry Lube Spray.		
Side Scrapers 1	Α		
	aper Drive Gearbox with Alpha SP320		
	cover and check condition of couplings and	Irubbers	
	and adjusting screws Mollub Alloy open gea		
	cket bearings with EPL2 Grease		
	sioner bearings with EPL2 Grease		
	ng arm pivot points with Dry Lube Spray		
Check guide and	support wheels for operation and condition.		
Side Scrapers 1	В		
Change oil in Scr	aper Drive Gearbox with Alpha SP320		
Remove coupling	cover and check condition of couplings and	I rubbers	
Lubricate chains	and adjusting screws Mollub Alloy open gea	r grease	
Grease idler spro	cket bearings with EPL2 Grease		
Grease chain ten	sioner bearings with EPL2 Grease		
Lubricate adjustir	ng arm pivot points with Dry Lube Spray		
Check guide and	support wheels for operation and condition.		
			

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PST Bridges 2/		·	
Check grease le	evel in auto greaser canister and top up wit	th EPL2 grease if required.	
	nes for leaks and defects	•	
Remove Main S remove grease	upport Wheels bearing covers and check lines and check flow of grease and for hard ote - Boat or pontoon may be required for	dening of grease in the lines.	
Change oil in Ma	ain Drive Gearbox with Alpha SP320		
Remove guard a	and check condition of Motor to Main Drive	Gearbox couplings.	
Change Cable F	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	2Δ		
Fill Auto Lube w			
I III Adio Edbe W	III AI 2 gicase		
Inlet Penstock	2B		
Fill Auto Lube w	ith AP2 grease		
Outlet Penstoc			
Fill Auto Lube w	ith AP2 grease		
Outlet Penstoc	k 2B		
Fill Auto Lube w	ith AP2 grease		
Scraper Hoist 2	<u></u> 2A		
· -	craper Hoist Gearbox with Alpha SP320.		
Remove guard a	and check condition of Motor to Gearbox c	ouplings.	
Lubricate drive	sprockets and drive chain with Mollub Allo	y open gear grease.	
Visual inspect lif	ter shaft bearings and blocks for defects.		
	ing arm pivot points with Dry Lube Spray.		
Lubricate adjust			
Lubricate adjust Scraper Hoist 2	2B		
Lubricate adjust Scraper Hoist 2 Change oil in Sc	2B craper Hoist Gearbox with Alpha SP320.	ouplings.	
Scraper Hoist 2 Change oil in Scremove guard a	RB craper Hoist Gearbox with Alpha SP320.		
Scraper Hoist 2 Change oil in Scremove guard a	2B craper Hoist Gearbox with Alpha SP320.		

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Side Scrapers 2	A		
-	raper Drive Gearbox with Alpha SP320		
	g cover and check condition of couplings and rubbe	ers	
	and adjusting screws Mollub Alloy open gear grea		
	ocket bearings with EPL2 Grease		
	nsioner bearings with EPL2 Grease		
	ng arm pivot points with Dry Lube Spray		
	I support wheels for operation and condition.		
Side Scrapers 2	В		
Change oil in Sc	raper Drive Gearbox with Alpha SP320		
•	g cover and check condition of couplings and rubbe		_
Lubricate chains	and adjusting screws Mollub Alloy open gear grea	ise	
Grease idler spro	ocket bearings with EPL2 Grease		
Grease chain ter	nsioner bearings with EPL2 Grease		
Lubricate adjusti	ng arm pivot points with Dry Lube Spray		
Check guide and	support wheels for operation and condition.		
PST Bridge 5 Remove Main Sugrease	upport Wheel bearing covers. Check grease for cor	ntamination and repack i	if required with EPL2
	ocket bearings with EPL2		
	ve shaft bearings with EPL2		
	nin Drive Gearbox with Alpha SP220		
	aft bearings with EPL2 Grease.		
	eler gearbox oil with EPX 80W-90		
	of cable reeler couplings.		
	Off valve spindles with Mollub Alloy Open Gear Gre	ease. (3 of)	
	•	,	
Inlet Penstock			
Fill Auto Lube wi	th AP2 grease		
Outlet Penstock			
Fill Auto Lube wi	th 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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DESCRIPTION:	12 Monthly Zone 1 Lubrication Maintenance	FREQUENCY:	12 Monthly
LOCATION:	ST18 Luggage Point WRP	STD JOB ID:	LTS029

Remove coupling Lubricate chains a			
Change oil in Scra Remove coupling Lubricate chains a			
Remove coupling Lubricate chains a	per Drive Gearbox with Alpha SP320		
Lubricate chains a	cover and check condition of couplings and rubbe	ers.	
	nd adjusting screws Mollub Alloy open gear grea		
Grease idler sprod	ket bearings with EPL2 Grease		
Grease chain tens	ioner bearings with EPL2 Grease		
Grease scraper lift	ramp rollers with EPL2 grease		
Grease main drive	sprocket bearings with EPL2 grease.		
Grease main supp	ort wheel bearings with EPL2 grease.		
Effluent Water Pu	ımp Unit 1		
	d Motors 6 –8 shots of AP3 grease		
Remove coupling	guard and check condition of couplings and rubbe	ers.	
Effluent Water Pu			
1	d Motors 6 –8 shots of AP3 grease		
Remove coupling	guard and check condition of couplings and rubbe	ers.	
	ina Pump		
Formic Acid Dos			
Formic Acid Dos Change oil with Ef	<u> </u>		
	<u> </u>		
	<u> </u>		
	PX 80W-90		
Change oil with Ef	PX 80W-90 p 1 Remove Back Cover Plate Assembly and check v	vear plate condition. Mea	asure clearance
Raw Sludge Pum Isolate pump and between impeller a	p 1 Remove Back Cover Plate Assembly and check v Wear plate. d internal housing for wear & tear and/or damage		
Change oil with Effective Raw Sludge Pum Isolate pump and between impeller and Check impeller and Isolate pump and Isolate pu	p 1 Remove Back Cover Plate Assembly and check v Wear plate. d internal housing for wear & tear and/or damage yer Plate Assembly utilising shims on Pump Eleme		
Raw Sludge Pum Isolate pump and between impeller an Replace Back Covmanufacturer's tole	p 1 Remove Back Cover Plate Assembly and check v Wear plate. d internal housing for wear & tear and/or damage yer Plate Assembly utilising shims on Pump Eleme	ent so clearance is within	
Raw Sludge Pum Isolate pump and between impeller an Replace Back Covmanufacturer's tole Remove coupling	PX 80W-90 P 1 Remove Back Cover Plate Assembly and check volume with the second control of the second contro	ent so clearance is withiners.	
Raw Sludge Pum Isolate pump and between impeller an Replace Back Covmanufacturer's tole Remove coupling Replace oil with C	PX 80W-90 Page 1 Remove Back Cover Plate Assembly and check volume 1 Remove Back Cover Plate Assembly and check volume 1 Remove Back Cover Plate Assembly and check volume 2 d internal housing for wear & tear and/or damage 2 rer Plate Assembly utilising shims on Pump Elemperances. Guard and check condition of couplings and rubber 2 astrol Hyspin AWH100 checking for contaminates	ent so clearance is withiners.	
Raw Sludge Pum Isolate pump and between impeller an Replace Back Covmanufacturer's tole Remove coupling Replace oil with C	PX 80W-90 P 1 Remove Back Cover Plate Assembly and check volume Remove Back Cover Plate Assembly and check volume Remove Back Cover Plate Assembly and check volume Remove Back Cover Plate Assembly and remove Plate Assembly utilising shims on Pump Elementary Remove Back Cover Plate Assembly and check remove as tear and/or damage remove Plate Assembly utilising shims on Pump Elementary Remove Back Cover Plate Assembly and check volume Remove Back Cover Back Cover Plate Assembly and check volume Remove Back Cover Back Cover Back Cover Back Cover Back Cove	ent so clearance is withiners.	n
Raw Sludge Pum Isolate pump and between impeller an Replace Back Comanufacturer's tole Remove coupling Replace oil with C Raw Sludge Pum Isolate pump and between impeller and between impeller and between impeller and control of the second	PX 80W-90 P 1 Remove Back Cover Plate Assembly and check volume Remove Back Cover Plate Assembly and check volume Remove Plate Assembly utilising shims on Pump Elemeterances. Reguard and check condition of couplings and rubber astrol Hyspin AWH100 checking for contaminates P 2 Remove Back Cover Plate Assembly and check volume Remove Back Cover Plate Assembly Remove Back Cover Plate Remove Remove Back Cover Plate Remove Remove Remove Remove Remove Remove Remove Remove Remove	ent so clearance is withingers. S. vear plate condition. Mea	n
Raw Sludge Pum Isolate pump and between impeller an Replace Back Commanufacturer's tole Remove coupling Replace oil with Commanufacture Pum Isolate pump and between impeller an Check impeller an Check impeller and Check impeller and Isolate pump and between impeller and Check impeller and Isolate pump and Isolate I	p 1 Remove Back Cover Plate Assembly and check v & Wear plate. d internal housing for wear & tear and/or damage rer Plate Assembly utilising shims on Pump Elemeterances. guard and check condition of couplings and rubbe astrol Hyspin AWH100 checking for contaminates p 2 Remove Back Cover Plate Assembly and check v & Wear plate. d internal housing for wear & tear and/or damage	ent so clearance is withingers. s. vear plate condition. Mea	n asure clearance
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DESCRIPTION:	12 Monthly Zone 1 Lubrication Maintenance	FREQUENCY:	12 Monthly
LOCATION:	ST18 Luggage Point WRP	STD JOB ID:	LTS029

Raw Sludge Pump 3 Isolate pump and Remove Back Cover Plate Assembly and check between impeller & Wear plate. Check impeller and internal housing for wear & tear and/or dama Replace Back Cover Plate Assembly utilising shims on Pump Elemanufacturer's tolerances. Remove coupling guard and check condition of couplings and rule Replace oil with Castrol Hyspin AWH100 checking for contaminate Place oil with Castrol Hyspin AWH100 checking for contaminate Place Place oil with Castrol Hyspin for wear & tear and/or dama Replace Back Cover Plate Assembly utilising shims on Pump Elemanufacturer's tolerances. Remove coupling guard and check condition of couplings and rule Replace oil with Castrol Hyspin AWH100 checking for contaminate Place oil with Castrol Hyspin AWH100 checking for contaminate Place Place Wear Plate. Check impeller & Wear plate. Check impeller and internal housing for wear & tear and/or dama Replace Back Cover Plate Assembly utilising shims on Pump Elemanuface Back Cover Plate Assembly utilising shims on Pump Elemanuface Back Cover Plate Assembly utilising shims on Pump Elemanuface Back Cover Plate Assembly utilising shims on Pump Elemanuface Back Cover Plate Assembly utilising shims on Pump Elemanuface Back Cover Plate Assembly utilising shims on Pump Elemanuface Back Cover Plate Assembly utilising shims on Pump Elemanuface Back Cover Plate Assembly utilising shims on Pump Elemanuface Back Cover Plate Assembly utilising shims on Pump Elemanuface Back Cover Plate Assembly utilising shims on Pump Elemanuface Back Cover Plate Assembly utilising shims on Pump Elemanuface Back Cover Plate Assembly utilising shims on Pump Elemanuface Back Cover Plate Assembly utilising shims on Pump Elemanuface Back Cover Plate Assembly utilising shims on Pump Elemanuface Back Cover Plate Assembly utilising shims on Pump Elemanuface Back Cover Plate Assembly utilising shims on Pump Elemanuface Back Cover Plate Assembly utilising shims on Pump Elemanuface Back Cover Plate Assembly utilising shims on Pump Elemanuface Back C	ge. ement so clearance is within obers. tes. k wear plate condition. Measure clea ge. ement so clearance is within obers. tes.	
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Remove coupling guard and check condition of couplings and rule. Replace oil with Castrol Hyspin AWH100 checking for contaminate. Raw Sludge Pump 4 Isolate pump and Remove Back Cover Plate Assembly and check between impeller & Wear plate. Check impeller and internal housing for wear & tear and/or dama Replace Back Cover Plate Assembly utilising shims on Pump Elemanufacturer's tolerances. Remove coupling guard and check condition of couplings and rule. Replace oil with Castrol Hyspin AWH100 checking for contaminate. Raw Sludge Pump 5 Isolate pump and Remove Back Cover Plate Assembly and check between impeller & Wear plate. Check impeller and internal housing for wear & tear and/or dama.	bbers. tes. k wear plate condition. Measure clea ge. ement so clearance is within bbers. tes.	arance
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Replace Back Cover Plate Assembly utilising shims on Pump Elemanufacturer's tolerances. Remove coupling guard and check condition of couplings and rule. Replace oil with Castrol Hyspin AWH100 checking for contamination. Raw Sludge Pump 5 Isolate pump and Remove Back Cover Plate Assembly and check between impeller & Wear plate. Check impeller and internal housing for wear & tear and/or damage.	ement so clearance is within obers. tes.	
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Replace oil with Castrol Hyspin AWH100 checking for contamination of the	tes.	
Raw Sludge Pump 5 Isolate pump and Remove Back Cover Plate Assembly and check between impeller & Wear plate. Check impeller and internal housing for wear & tear and/or damage.		
Isolate pump and Remove Back Cover Plate Assembly and check between impeller & Wear plate. Check impeller and internal housing for wear & tear and/or dama	k wear plate condition. Measure clea	
between impeller & Wear plate. Check impeller and internal housing for wear & tear and/or dama	k wear plate condition, weasure clea	ranco
	•	liance
Replace Back Cover Plate Assembly utilising shims on Pump Fle	ge.	
manufacturer's tolerances.	ment so clearance is within	
Remove coupling guard and check condition of couplings and rule	obers.	
Replace oil with Castrol Hyspin AWH100 checking for contamina	tes.	
Raw Sludge Pump 6		
Isolate pump and Remove Back Cover Plate Assembly and chec between impeller & Wear plate.	k wear plate condition. Measure clea	arance
Check impeller and internal housing for wear & tear and/or dama		
Replace Back Cover Plate Assembly utilising shims on Pump Elemanufacturer's tolerances.	ment so clearance is within	
Remove coupling guard and check condition of couplings and rule	obers.	
Replace oil with Castrol Hyspin AWH100 checking for contamina	tes.	

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