

DESCRIPTION:	12 Monthly Zone 5 Lubrication Maintenance	FREQUENCY:	12 Monthly
LOCATION:	ST18 Luggage Point STP	STD JOB ID:	LTS033

Grease and Oils Required	Maintenance Group
Castrol AP3 Grease	DAF Plant and Associated Equipment
Castrol EPL2 Grease	Aeration Blowers
Castrol Mollub Alloy 936SF Open Gear Grease	Storage Digester 1 and 2
Castrol EPX 80W-90	Supernatant Pumps
Castrol Hyspin AWS32	Sludge Recirculation Pumps
Castrol Hyspin AWS68	
Castrol Hyspin AWS100	
Castrol Alpha SP220	
Castrol Alpha SP680	
Dry Lube Spray	
Shell Turbo T46 Oil	
Procedural Steps	
DAF 3&4	
Recycle Pump 1	
Grease Recycled Pump No.1 motor with 2 strokes of AP3 to each grease nipple.	
Remove coupling guard and check condition of couplings and rubbers.	
Recycle Pump 2	
Grease Recycled Pump No.2 motor with 2 strokes of AP3 to each grease nipple.	
Remove coupling guard and check condition of couplings and rubbers.	
Recycle Pump 3	
Grease Recycled Pump No.3 motor with 2 strokes of AP3 to each grease nipple.	
Remove coupling guard and check condition of couplings and rubbers.	
Subnatant Pump 1	
Grease Subnatant Pump No.1 motor with 2 strokes of AP3 to each grease nipple.	
Remove coupling guard and check condition of couplings and rubbers.	
Subnatant Pump 2	
Grease Subnatant Pump No.2 motor with 2 strokes of AP3 to each grease nipple.	
Remove coupling guard and check condition of couplings and rubbers.	
Subnatant Pump 3	
Grease Subnatant Pump No.3 motor with 2 strokes of AP3 to each grease nipple.	
Remove coupling guard and check condition of couplings and rubbers.	

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Sludge (TWAS) Pump1
Change TWAS Pump No.1 gearbox oil. Replace with SP220.
Remove coupling guard and check condition of couplings and rubbers.
Clean knife gate isolation valves in and regrease with Mollub Alloy 936SF Open Gear Grease.
Sludge (TWAS) Pump2
Change TWAS Pump No.2 gearbox oil. Replace with SP220.
Remove coupling guard and check condition of couplings and rubbers.
Clean knife gate isolation valves in and regrease with Mollub Alloy 936SF Open Gear Grease.
Feed Pump 1
Change Feed Pump No.1 oil . Replace with Hyspin AWS68.
Grease Feed Pump No.1 motor with 2 strokes of AP3 to each grease nipple.
Remove coupling guard and check condition of couplings and rubbers.
Clean knife gate isolation valves in and regrease with Mollub Alloy 936SF Open Gear Grease.
Feed Pump 2
Change Feed Pump No.2 oil . Replace with Hyspin AWS68.
Grease Feed Pump No.2 motor with 2 strokes of AP3 to each grease nipple.
Remove coupling guard and check condition of couplings and rubbers.
Clean knife gate isolation valves in and regrease with Mollub Alloy 936SF Open Gear Grease.
Feed Pump 3
Change Feed Pump No.3 oil . Replace with Hyspin AWS68.
Grease Feed Pump No.3 motor with 2 strokes of AP3 to each grease nipple.
Remove coupling guard and check condition of couplings and rubbers.
Clean knife gate isolation valves in and regrease with Mollub Alloy 936SF Open Gear Grease.
Air Compressor 1
Check Air Compressor 1 oil levels. Report low levels.
Air Compressor 2
Check Air Compressor 1 oil levels. Report low levels.
DAF Tank 3
Change Tank No.3 Skimmer drive gearbox oil. Replace with SP220.
Grease Tank No.3 skimmer drive end shaft bearings with 20 shots of EPL2 Grease. Both sides.
Change Tank No.3 Skimmer drive gearbox oil. Replace with SP220.
Change DAF No.3 Scraper Hydraulic system oil. Replace with Hyspin AWS68.

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DAF Tank 4
Grease Tank No.4 skimmer drive end shaft bearings with 20 shots of EPL2 Grease. Both sides.
Change DAF No.4 Scraper Hydraulic system oil. Replace with Hyspin AWS68.
Aeration Blower 1
Take oil sample from Blower No.1 and send for analysis. Top up with Turbo T46 oil.
Grease Blower No.1 Motor bearings with 3 shots of AP3 grease.
Aeration Blower 2
Take oil sample from Blower No.2 and send for analysis. Top up with Turbo T46 oil.
Grease Blower No.2 Motor bearings with 3 shots of AP3 grease.
Aeration Blower 3
Take oil sample from Blower No.3 and send for analysis. Top up with Turbo T46 oil.
Grease Blower No.3 Motor bearings with 3 shots of AP3 grease.
Aeration Blower 4
Take oil sample from Blower No.4 and send for analysis. Top up with Turbo T46 oil.
Grease Blower No.4 Motor bearings with 3 shots of AP3 grease.
Aeration Blower 5
Take oil sample from Blower No.5 and send for analysis. Top up with Turbo T46 oil.
Grease Blower No.5 Motor bearings with 3 shots of AP3 grease.
Supernatant 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 coupling.
Replace oil with Castrol Hyspin AWH100 checking for contaminates.

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Supernatant 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 coupling.	
Replace oil with Castrol Hyspin AWH100 checking for contaminates.	
Supernatant 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 coupling.	
Replace oil with Castrol Hyspin AWH100 checking for contaminates.	
Sludge Recirculation 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 coupling.	
Replace oil with Castrol Hyspin AWH100 checking for contaminates.	
Clean knife gate isolation valves in and regrease with Mollub Alloy 936SF Open Gear Grease.	
Sludge Recirculation 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 coupling.	
Replace oil with Castrol Hyspin AWH100 checking for contaminates.	
Clean knife gate isolation valves in and regrease with Mollub Alloy 936SF Open Gear Grease.	

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Sludge Recirculation 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 coupling.	
Replace oil with Castrol Hyspin AWH100 checking for contaminates.	
Clean knife gate isolation valves in and regrease with Mollub Alloy 936SF Open Gear Grease.	
Sludge Recirculation 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 coupling.	
Replace oil with Castrol Hyspin AWH100 checking for contaminates.	
Clean knife gate isolation valves in and regrease with Mollub Alloy 936SF Open Gear Grease.	
Sludge Recirculation 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 coupling.	
Replace oil with Castrol Hyspin AWH100 checking for contaminates.	
Clean knife gate isolation valves in and regrease with Mollub Alloy 936SF Open Gear Grease.	
Sludge Recirculation 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 coupling.	
Replace oil with Castrol Hyspin AWH100 checking for contaminates.	
Clean knife gate isolation valves in and regrease with Mollub Alloy 936SF Open Gear Grease.	