

DESCRIPTION:	6 Monthly Zone 1 Lubrication and Service	FREQUENCY:	6 Months
LOCATION:	Carole Park Sewerage Treatment Plant	STANDARD JOB No.:	LTS316

Tools & Equipment
Spare Parts/Materials List
Shell Gadus S2 V100
Shell Gadus S2 general purpose high pressure
Castrol WM Synthetic Oil – If other Brand used, type & viscosity be equivalent to ISO 320 Full Synthetic
Castrol Alpha SP220
Oil Filter – Stauff SFC-3510E 10 Micron Filter Paper
White Oil
Reference
Follow correct shut down procedures before working on any equipment.
Maintenance Group
Aeration Tank 1 Aerator
Aeration Tank 2 Aerator
Secondary Sedimentation Tank 1
Secondary Sedimentation Tank 2
Secondary Sedimentation Tank 3
WAS Pump Station 2
Scum Pump Station 2
Procedural Steps
Before isolating any equipment, where possible observe in running condition. Check for correct operation.
Aeration Tank 1 Aerator
Check Aerator motor and gearbox for noise, leaks, vibration.
Check Aerator Gearbox base and housing for corrosion, defects and tightness of bolts.
Replace oil in Aerator Gearbox. Castrol WM Synthetic Oil. 16 litres
Apply grease to all Aerator motor greasing points. Shell Gadus S2 general purpose high pressure
Remove Bell Housing inspection cover and check condition of couplings and rubber element.
Replace oil filter with Stauff SFC-3510E 10 Micron Filter Paper. Available from Cooper Fluid Systems.
Note Oil Pump serviced under different work order

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Aeration Tank 2 Aerator			
Check Aerator motor and gearbox for noise, leaks, vibration.			
Check Aerator Gearbox base and housing for corrosion, defects and tightness of bolts.			
Replace oil in Aerator Gearbox. Castrol WM Synthetic Oil. 16 litres			
Apply grease to all Aerator motor greasing points. Shell Gadus S2 general purpose high pressure			
Remove Bell Housing inspection cover and check condition of couplings and rubber element.			
Replace oil filter with Stauff SFC-3510E 10 Micron Filter Paper. Available from Cooper Fluid Systems.			
Note Oil Pump serviced under different work order			
Secondary Sedimentation Tank 1			
Drive gearbox unit for leaks / noise / vibration			
Drive Wheel and idle wheel for bearing noise.			
Centre Column Bearing for noise / vibration			
Grease lines and grease nipples for defects.			
Grease centre column bearing. Shell Gadus S2 general purpose high pressure			
Grease each Updraught Tube Spindle top and bottom. Shell Gadus S2 general purpose high pressure			
Grease bearings on Drive Wheel and Trail Wheel. Shell Gadus S2 general purpose high pressure			
Isolate bridge and perform lube maintenance:			
Check oil in bridge drive primary /secondary gearbox. Top up if required Alpha SP220			
Jack up bridge, remove covers and check drive & trail wheels for play on shaft and delamination.			
Check drive & trail wheel bearings for play on shaft.			
Remove drive gear unit coupling guard and check condition of couplings and rubbers.			
Secondary Sedimentation Tank 2			
Drive gearbox unit for leaks / noise / vibration			
Drive Wheel and idle wheel for bearing noise			
Centre Column Bearing for noise / vibration			
Grease lines and grease nipples for defects.			
Grease centre column bearing. Shell Gadus S2 general purpose high pressure			
Grease each Updraught Tube Spindle top and bottom. Shell Gadus S2 general purpose high pressure			
Isolate bridge and perform lube maintenance:			
Check oil in bridge drive primary /secondary gearbox. Top up if required Alpha SP220			
Jack up bridge, remove covers and check drive & trail wheels for play on shaft and delamination.			
Check drive & trail wheel bearings for play on shaft.			
Remove drive gear unit coupling guard and check condition of couplings and rubbers.			

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Secondary Sedimentation Tank 3	
Drive gearbox unit for leaks / noise / vibration	
Drive Wheel and idle wheel for bearing noise.	
Centre Column Bearing for noise / vibration	
Grease lines and grease nipples for defects.	
Grease centre column bearing. Shell Gadus S2 general purpose high pressure	
Grease each Updraught Tube Spindle top and bottom. Shell Gadus S2 general purpose high pressure	
Isolate bridge and perform lube maintenance:	
Check oil in bridge drive primary /secondary gearbox. Top up if required Alpha SP220	
Jack up bridge, remove covers and check drive & trail wheels for play on shaft and delamination.	
Check drive & trail wheel bearings for play on shaft.	
Check condition of couplings and rubbers.	
WAS Pump Station 2 Shell Gadus S2 general purpose high pressure	
Grease all isolation valve stem nuts	
Check pumps 1 & 2 for noise, vibration and/or leaks	
Scum Pump Station 2 Shell Gadus S2 general purpose high pressure	
Grease all isolation valve stem nuts	
Scum Pump No.1	
Check pump for noise, vibration and/or leaks	
Remove coupling cover and check alignment and for worn parts.	
Check pressure setting (20 PSI) on each pump. Confer with Plant Operator if setting is different.	
Check oil level pump gearbox, top up if required. Castrol Alpha SP 220	
Check oil level reduction gearbox, top up if required. Alpha SP220	
Set pressure to 20 PSI. Confer with Plant Operator in case setting has changed.	
Scum Pump No.2	
Check pump for noise, vibration and/or leaks	
Remove coupling cover and check alignment and for worn parts.	
Check pressure setting (20 PSI) on each pump. Confer with Plant Operator if setting is different.	
Check oil level pump gearbox, top up if required. Castrol Alpha SP 220	
Check oil level reduction gearbox, top up if required. Alpha SP220	
Set pressure to 20 PSI. Confer with Plant Operator in case setting has changed.	