

<b>DESCRIPTION:</b>	12 Monthly Zone 1 Lubrication and Service	<b>FREQUENCY:</b>	12 Months
<b>LOCATION:</b>	Carole Park Sewerage Treatment Plant	<b>STANDARD JOB No.:</b>	LTS317

<b>Tools &amp; Equipment</b>
<b>Spare Parts/Materials List</b>
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
<b>Reference</b>
Follow correct shut down procedures before working on any equipment.
<b>Maintenance Group</b>
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
<b>Procedural Steps</b>
<b>Before isolating any equipment, where possible observe in running condition. Check for correct operation.</b>
<b>Aeration Tank 1 Aerator</b>
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.
<b>***Note Oil Pump serviced under different work order***</b>

<b>DESCRIPTION:</b>	12 Monthly Zone 1 Lubrication and Service	<b>FREQUENCY:</b>	12 Months
<b>LOCATION:</b>	Carole Park Sewerage Treatment Plant	<b>STANDARD JOB No.:</b>	LTS317

<b>Aeration Tank 2 Aerator</b>			
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.			
<b>***Note Oil Pump serviced under different work order***</b>			
<b>Secondary Sedimentation Tank 1</b>			
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			
<b>Isolate bridge and perform lube maintenance:</b>			
Replace oil in bridge drive primary /secondary gearbox. 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.			
<b>Secondary Sedimentation Tank 2</b>			
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			
<b>Isolate bridge and perform lube maintenance:</b>			
Replace oil in bridge drive primary /secondary gearbox. 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.			

<b>DESCRIPTION:</b>	12 Monthly Zone 1 Lubrication and Service	<b>FREQUENCY:</b>	12 Months
<b>LOCATION:</b>	Carole Park Sewerage Treatment Plant	<b>STANDARD JOB No.:</b>	LTS317

<b>Secondary Sedimentation Tank 3</b>
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
<b>Isolate bridge and perform lube maintenance:</b>
Replace oil in bridge drive primary /secondary gearbox. 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.
<b>WAS Pump Station 2</b>
<b>Pump No.1</b>
Check pump for noise, vibration and/or leaks.
Carry out internal inspection of non-return valve.
Separate pump and check wear ring gap.
Access condition of impeller.
Carry out oil change with White Oil.
<b>Pump No.2</b>
Check pump for noise, vibration and/or leaks.
Carry out internal inspection of non-return valve.
Separate pump and check wear ring gap.
Access condition of impeller.
Carry out oil change with White Oil.
<b>Scum Pump Station 2</b>
Grease all isolation valve stem nuts

<b>DESCRIPTION:</b>	12 Monthly Zone 1 Lubrication and Service	<b>FREQUENCY:</b>	12 Months
<b>LOCATION:</b>	Carole Park Sewerage Treatment Plant	<b>STANDARD JOB No.:</b>	LTS317

<b>Scum Pump No.1</b>
Check pump for noise, vibration and/or leaks.
Carry out internal inspection of non-return valve.
Remove coupling cover and check alignment and for worn parts.
Check pressure setting (20 PSI) on pump. Confer with Plant Operator if setting is different.
Carry out pump buffer chamber oil change. Castrol Alpha SP 220
Carry out pump gearbox oil change. Castrol Alpha SP 220
Carry out reduction gearbox oil change. Alpha SP220
Set pressure to 20 PSI. Confer with Plant Operator in case setting has changed.
<b>Scum Pump No.2</b>
Check pump for noise, vibration and/or leaks.
Carry out internal inspection of non-return valve.
Remove coupling cover and check alignment and for worn parts.
Check pressure setting (20 PSI) on pump. Confer with Plant Operator if setting is different.
Carry out pump buffer chamber oil change. Castrol Alpha SP 220
Carry out pump gearbox oil change. Castrol Alpha SP 220
Carry out reduction gearbox oil change. Alpha SP220
Set pressure to 20 PSI. Confer with Plant Operator in case setting has changed.