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| DESCRIPTION: | Major Zone 1 Lubrication and Service | FREQUENCY: | 12 Months |
| LOCATION: | Beautesert Sewerage Treatment Plant | STANDARD JOB No.: | LTS704 |

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| Tools & Equipment |
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| Spare Parts/Materials List |
| Castrol Spheerol EPL2 grease |
| Castrol Alpha SP220 |
| Castrol Hyspin AWH100 |
| Drive & Chain Spray by Recoil |
| Castrol Molub Alloy 6040/460-1.5 |
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| Reference |
| Follow correct shut down procedures before working on any equipment. |
| SB Series Muncher Installation, Operation and Maintenance Instructions Manual – for model CB201 |
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| Maintenance Group |
| Primary Settling Tank 1 |
| Primary Settling Tank 2 |
| Trickle Filter 1 |
| Trickle Filter 2 |
| Humus Pump Station |
| Secondary Settling Tank 1 |
| Secondary Settling Tank 2 |
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| Procedural Steps |
| Before isolating any equipment, where possible observe in running condition. Check for correct operation. |
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| The tasks below incorporate the 1 Month Greasing schedule so work should commence on or as close as possible to Start Date to maintain correct frequency. |
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| Primary Tank 1 Sludge Draw Off Pump |
| **Request if Operator can do a draw off so to operate pump to carry out task below. Do this in conjunction with Muncher check** |
| **Check pump for leaks, noise and vibration. |
| Check pump unit to base fasteners |
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| Primary Tank 1 Sludge Pump Muncher | | | |
| **Request if Operator can do a draw off so to operate pump to carry out task below. Do this in conjunction with Pump check** | | | |
| **Check Muncher for leaks, noise and vibration. | | | |
| Replace gearbox oil with SP220. | | | |
| Remove end plate and inspect cutters for wear & tear. | | | |
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| Primary Tank 2 Sludge Draw Off Pump | | | |
| **Request if Operator can do a draw off so to operate pump to carry out task below. Do this in conjunction with Muncher check** | | | |
| **Check pump for leaks, noise and vibration. | | | |
| Check pump unit to base fasteners | | | |
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| Primary Tank 2 Sludge Pump Muncher | | | |
| **Request if Operator can do a draw off so to operate pump to carry out task below. Do this in conjunction with Pump check** | | | |
| **Check Muncher for leaks, noise and vibration. | | | |
| Replace gearbox oil with SP220. | | | |
| Remove end plate and inspect cutters for wear & tear. | | | |
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| Primary Tanks 1 & 2 Scum Pump | | | |
| **Request if Operator can add effluent to tank so to operate pump to carry out task below. Do this in conjunction with Muncher check and only if pump has not ran on auto** | | | |
| **Check pump for leaks, noise and vibration. | | | |
| Check pump unit to base fasteners | | | |
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| Primary Tanks Scum Pump Muncher | | | |
| **Request if Operator can add effluent to tank so to operate pump to carry out task below. Do this in conjunction with Pump check and only if pump has not ran on auto** | | | |
| **Check Muncher for leaks, noise and vibration. | | | |
| Replace gearbox oil with SP220. | | | |
| Remove end plate and inspect cutters for wear & tear. | | | |
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| Primary Settling Tank 1 |
| While bridge is running check: |
| Drive gearbox for leaks / noise / vibration |
| Drive Wheel and idle wheel for bearing noise / de-lamination |
| Centre Column Bearing for noise / vibration |
| Scum Scraper for damage |
| Check all grease lines and grease nipples for defects. |
| Check all support chains and/or wire ropes for defects and visible anchor points for wear. |
| Apply 1 shot Molub Alloy 6040/460-1.5 grease to centre column. |
| Apply 2 shots Molub Alloy 6040/460-1.5 grease to bridge pivot points (2). |
| Apply 1 shot of Molub Alloy 6040/460-1.5 Grease to each drive and trail wheel bearing. |
| Isolate bridge and perform lube maintenance: |
| Replace gearbox oil with SP220. |
| Jack up bridge and check drive and trail wheel bearings are secure on shaft. |
| Clean away any excess grease that has leaked from drive and trail wheel bearing seals. |
| Check drive and trail wheel is secure on shaft |
| Remove Driver Sprocket guard and check top sprocket for wear and is secure on shaft. Lubricate with Recol Drive & Chain Spray. |
| Check bottom sprocket (driven) for wear and secure on shaft. Lubricate with Recol Drive & Chain Spray. |
| Check chain for wear and stretching. Lubricate with Recol Drive & Chain Spray. |
| Primary Settling Tank 2 |
| While bridge is running check: |
| Drive gearbox for leaks / noise / vibration |
| Drive Wheel and idle wheel for bearing noise / de-lamination |
| Centre Column Bearing for noise / vibration |
| Scum Scraper for damage |
| Check all grease lines and grease nipples for defects. |
| Check all support chains and/or wire ropes for defects and visible anchor points for wear. |
| Apply 1 shot Molub Alloy 6040/460-1.5 grease to centre column. |
| Apply 2 shots Molub Alloy 6040/460-1.5 grease to bridge pivot points (2). |
| Apply 1 shot of Molub Alloy 6040/460-1.5 Grease to each drive and trail wheel bearing. |
| Isolate bridge and perform lube maintenance: |
| Replace gearbox oil with SP220. |
| Jack up bridge and check drive and trail wheel bearings are secure on shaft. |
| Clean away any excess grease that has leaked from drive and trail wheel bearing seals. |
| Check drive and trail wheel is secure on shaft |
| Remove Driver Sprocket guard and check top sprocket for wear and is secure on shaft. Lubricate with Recol Drive & Chain Spray. |
| Check bottom sprocket (driven) for wear and secure on shaft. Lubricate with Recol Drive & Chain Spray. |
| Check chain for wear and stretching. Lubricate with Recol Drive & Chain Spray. |

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| Secondary Settling Tank 1 |
| While bridge is running check: |
| Drive gearbox for leaks / noise / vibration |
| Drive Wheel and idle wheel for bearing noise / de-lamination |
| Centre Column Bearing for noise / vibration |
| Scum Scraper for damage |
| Check all grease lines and grease nipples for defects. |
| Check all support chains and/or wire ropes for defects and visible anchor points for wear. |
| Apply 1 shot Molub Alloy 6040/460-1.5 grease to centre column. |
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| Apply 1 shot of Molub Alloy 6040/460-1.5 Grease to each drive and trail wheel bearing. |
| Isolate bridge and perform lube maintenance: |
| Replace gearbox oil with SP220. |
| Jack up bridge and check drive and trail wheel bearings are secure on shaft. |
| Clean away any excess grease that has leaked from drive and trail wheel bearing seals. |
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| Secondary Settling Tank 2 |
| While bridge is running check: |
| Drive gearbox for leaks / noise / vibration |
| Drive Wheel and idle wheel for bearing noise / de-lamination |
| Centre Column Bearing for noise / vibration |
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| Trickle Filter 1 |
| Check centre bearing for noise and freedom of movement. |
| Apply EPL2 grease centre bearing. |
| Inspect centre column and arms for wear and corrosion. |
| Operate turn buckles. |
| Inspect cables, arm support rods and mounting points for wear & corrosion. |
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| Trickle Filter 2 |
| Check centre bearing for noise and freedom of movement. |
| Apply EPL2 grease centre bearing. |
| Inspect centre column and arms for wear and corrosion. |
| Operate turn buckles. |
| Inspect cables, arm support rods and mounting points for wear & corrosion. |
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| Humus Pump 1 |
| Check pump for leaks, noise and vibration. |
| Remove Back Plate Assembly and check impeller wear and backing plate wear. |
| Measure clearance between impeller & wear plate. Add or remove shims so clearance is within manufacture's tolerances. |
| Remove pump coupling guard and check coupling and rubbers. |
| Replace oil with Castrol Hyspin AWH100 checking for contaminates. |
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| |
| Humus Pump 2 |
| Check pump for leaks, noise and vibration. |
| Remove Back Plate Assembly and check impeller wear and backing plate wear. |
| Measure clearance between impeller & wear plate. Add or remove shims so clearance is within manufacture's tolerances. |
| Remove pump coupling guard and check coupling and rubbers. |
| Replace oil with Castrol Hyspin AWH100 checking for contaminates. |
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