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| DESCRIPTION: | Intermediate Zone 1 Lubrication and Service | FREQUENCY: | 6 Months |
| LOCATION: | Beaudesert Sewerage Treatment Plant | STANDARD JOB No.: | LTS703 |

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| Tools & Equipment |
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| Spare Parts/Materials List |
| Castrol Spheerol EPL2 grease |
| Castrol Alpha SP220 |
| 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 Sedimentation Tank 1 |
| Primary Sedimentation 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 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. |
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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 Recoil Drive & Chain Spray. |
| Check bottom sprocket (driven) for wear and secure on shaft. Lubricate with Recoil Drive & Chain Spray. |
| Check chain for wear and stretching. Lubricate with Recoil 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. |
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| Apply 1 shot of Molub Alloy 6040/460-1.5 Grease to each drive and trail wheel bearing. |
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| 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 Recoil 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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| | 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. |
| | Check oil level and top up with if required with Castrol Hyspin AWH100. |
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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. |
| | Check oil level and top up with if required with Castrol Hyspin AWH100. |
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