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| **DUTY OF CARE : It is the responsibility of everyone to comply with the following instructions.**  **You must be qualified to perform this PM**  If you do not have the necessary qualifications and or training, do not proceed. Advise your supervisor of the fact.  **Use of OUT of SERVICE or DANGER tags**  You must obtain the relevant permits to Work, isolate equipment to make safe and place personal danger tags and locks on the equipment in accordance with the Barrick Lock and Tag procedure.  **Respect the Environment**  We care about the environment. Clean up any oil or grease spills, remove all rubbish from work areas and place in the appropriate bins.  **Employee Safety is our NUMBER ONE priority**  Safety is your responsibility. Appropriate Personal Protective Equipment must be used at all times. Do not place yourself or others at risk in any way. If you are unsure about anything, contact your supervisor immediately. | |
| **Activity Description**: | Activity # |
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| **1.** | **Document Name** | | | | | | | | | | | |
| **Document No.** | | CMMS-3868-2016 | | | **Issue Date** | | 26/11/2019 | | | **Version No.** | |  |
| **Document Title** | |  | | | | | | | | | | |
|  | |  | **Asset No.** |  | | | | **SMU Reading** | | |  | |
| **Model** | |  | | | | **Serial No.** | | |  | | | |

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| **2.** | **Safety Notice** | |
| **Hazard and Control Measures for Safety and Environment.**  Prior to Sign on perform the following a TOPS / FLRA  Before commencing this task check that no abnormal conditions exist.  Re-evaluate each step as you start it to make sure that you have adequately assessed all possible risks with carrying out the task.  If unsure contact you supervisor for guidance. | |  |

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| **3.** | **Special tools** | | | | |
| **Serial No.** | | **Tool No.** | **OEM Part No.** | **Description** | **Qty** |
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| **4.** | **Personnel Required** | | |
| **Trade Type** | | **Quantity** | **Hours** |
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| **5.** | **List of Potential Hazards associated with this Work Instruction** | |
| **Hazard or Environmental Risk** | | **Control** |
|  | **Stored Hydraulic Energy** | Release any pressure in hydraulic system before doing any work. |
|  | **Crushing Hazard** | Ensure there is no risk of moving and/or stationary parts having the ability to crush. |
|  | **Hazardous Substances** | Ensure all hazardous material is approved for site use. Read follow and understand Safety Data Sheets (SDS). |
|  | **Rotating Machinery** | Working in and around rotating components during maintenance. |
|  | **Electrical Energy** | Ensure all electrical isolations are in place. |
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|  | **Pinch Points** | Wear appropriate site approved hand protection. |
|  | **Loud Noise** | Wear appropriate site approved hearing protection. |
|  | **Hot Oil** | Allow all oils to cool before commencing work |
|  | **Hot Surfaces** | Allow components to cool before commencing work. |
|  | **Fluid Containment** | Ensure all fluids are contained and disposed of as per site procedures. |
|  | **Heavy Lifting** | Complete a lift plane as per site procedures. Ensure all lifting equipment is inspected and fit for purpose before use. |
|  | **Manual Handling** | There are heavy objects, determine if a mechanical lifting devise can be used. |
|  | **Slips, Trips and Falls** | Ensure good housekeeping at all times and clean up any spills etc. |
|  | **Coolant Alkalinity** | Avoid skin and eye contact. Wear site approved PPE. |
|  | **Coolant Under Pressure** | Remove cooling system pressure cap slowly to relieve any system pressure. |
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| **6.** | **Isolations** | |
| **Equipment/System in Operation** | | **Isolation Required** |
| ☐ Yes ☐ No | | ☐ Yes ☐ No |

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| **7.** | **Job Sign On** | | | | |
|  | | All personnel working under this Work Instruction shall sign on below to acknowledge they have read this document | | | |
|  | | Where you do not understand the instructions consult the work supervisor for clarification. Work shall not proceed until the Supervisor has addressed the issue. | | | |
|  | | Any correction or changes to the document are to be detailed in the feedback section of this document. | | | |
| **Employee Number** | | **Name** | **Signature** | **Initial** | **Date** |
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| **8** | **Service Task Checklist** | | |
| **Information** | | | |
| **1** | **Quality Statement.** |  | |  | | --- | |  | | |
| Place identification marks on all lines, on all hoses, on all wires and on all tubes for installation purposes. Plug all lines, hoses and tubes to prevent spills and contamination. | |
| **2** | **Initial** the box to the right of the task when the task is completed | | |
| **3** | **Record** all defects and notifications in the Work Notification section at the end of this document. | | |

| **No.** | **Task / Activity /  Acceptable Condition** | **Task Recoding If Applicable** | **Image** | **Initial** |
| --- | --- | --- | --- | --- |
| **Gyratory Primary Crusher - Jack Shaft Bearings** | | | | |
| 1 | Keep your hands outside of guarded areas, do not touch rotating equipment |  |  |  |
| 2 | Check the Jack Shaft bearing labyrinth seals |  |  |  |
| 3 | Pump 2 to 3 shots of grease into the bearing housing and into each seal until clean grease is visible on the shaft. DO NOT over-grease bearing or seals. Report tp your Supervisor if grease does not come through after 3 shots |  |  |  |
| 4 | Check bearing temperature by hand if safe, you should be able to put your hand on the bearing without discomfort. Report to your Supervisor if the bearing is too hot to touch for more than 10 seconds |  |  |  |
| **Gyratory Primary Crusher - Main Shaft Bearings** | | | | |
| 5 | Crusher mantle will spin clockwise when unloaded and should have a head spin of 20RPM Max. Pick a mark on the mantle and count how many times it goes past in one minute. | Record head spin RPM |  |  |
| 6 | Run down time must also be 45 secs min.Co ordinate with operators to disengage the clutch and count time from when clutch disengaged to when drive sheaves stop turning | Record run down time Secs |  |  |
| 7 | If head is spinning too fast or run down time too slow can mean bush or lubrication problems. System needs to be checked at earliest opportunity.Advise Maint Supervisor |  |  |  |
| 8 | With clutch engaged and crusher under load, inspect Vee Belts for flapping, squealing, turned over in groove, broken belts, etc. |  |  |  |
| **Gyratory Primary Crusher - Lubrication System** | | | | |
| 9 | Check lube pump #1 & #2, Centrifuge pump and oil cooler. Look for excessive heat, vibration, noise, oil leaks and fire or safety hazards on and around lube system |  |  |  |
| 10 | Check pumps and motors for excess heat, noise or vibration. Change over to the standby main lube pump so both can be checked |  |  |  |
| 11 | Check oil level on sight glass and top up tank if level is below 75% - only fill to 85% do not over fill | Only use Shell Omala 320 lubricant, located in crusher bund lube area |  |  |
| 12 | Check oil condition coming from oil return line into tank | Clean ( )  Dirty ( ) Milky ( ) Metal ( ) |  |  |
| 13 | Inspect oil return screen. Collect sample in a clean plastic bag and hand to Maintenance Supervisor and Reliability Section if screen has metal or dirt. This is a key inspection to determine crusher problems. Thoroughly clean oil screen before replacing it | Thoroughly clean oil screen before replacing it |  |  |
| 14 | Check Oil Differential Temperatures. Oil should heat up no more than 8 degrees C when going through crusher. Record Oil Temp IN to crusher and Oil Temp OUT of crusher from gauges on oil pipes near lube tank | Oil Temp OUT °c (temp gauge on large return pipe coming out of wall above steel door on dump pocket)  Oil Temp IN °c (temp gauge on small pipe coming out of filter and mounted above electrical boxes) (38°c min. - 56°c max)  Difference ( take bottom number from top number) If more than 8 C increase report to maintenance supervisor |  |  |
| 15 | Record filter differential pressure. (15psi Max) If over 15 psi, get supervisor to raise child work order to change as soon as possible | Filter Diff Pressure PSI |  |  |
| 16 | Check by hand the pipes out of all pressure relief and check valves to see if they are bypassing oil. They will be hot if they are. This is a serious problem, report to maintenance supervisor |  |  |  |
| 17 | Clean Centrifuge. Check centrifuge is spinning, turn on and off and listen / feel it speed up and slow down. Max pressure in centrifuge is 7 bar, if higher turn off and check for blocked line, clean inner rotor and check that discharge jets are not blocked |  |  |  |
| 18 | Check grease level in Spider grease bulk drum located outside hydroset area. Is marker weight near the top and the drum need changing Yes / No (circle). Grease is HDX2 Is grease timer operating every 10 mins | Record actual Time Minutes |  |  |
| 19 | Check the Spider grease air fittings for leaks or damage. Set the pressure regulator on the line to the top of the grease drum to 60kPa, set the pressure regulator on the line to the grease pump to fully open. (860 kPa) |  |  |  |
| 20 | Check and fill the air lubricator bowls with Tellus 32 (there are 2 air lubricators, one for the pump and one for the distributor). |  |  |  |
| 21 | Clean out, or if necessary, raise a child work order to replace, the breathers on top of the lube tank and the return oil line. (Make sure no contaminants enter the system.) |  |  |  |
| 22 | Check that the oil cooler core is visibly clean. (Clean if necessary using degreaser and water.) |  |  |  |
| 23 | Check that oil cooler fan guard is secure and in good condition. |  |  |  |
| 24 | Check oil cooler fan blades for any build up or damage. (Clean / straighten blades if necessary.) |  |  |  |
| 25 | Replace any covers or guards removed during the service |  |  |  |
| 26 | Clean up any oil leaks or spillage. Mop up any oil in the spillage tray under the lube system and dispose of any clean up rags or rubbish around the lube system in the rubbish bins |  |  |  |
| 27 | Break open the return oil line and inspect internally. Remove any build up of foreign material |  |  |  |
| **Gyratory Primary Crusher - Lubrication Cooling System** | | | | |
| 28 | Check that cooler is clean and not blocked externally with oil and grease in fins.If so hose out with degreaser and water |  |  |  |
| 29 | Fan should be switched to auto and not running when lube oil tank temp is below 38 C and running when temp above 46 C. Check against temp from readout in the control room for lube oil tank temp | If fan is not operating correctly, inform maintenance supervisor |  |  |
| **Transmin Rockbreaker - Hydraulic System** | | | | |
| 30 | The rockbreaker will need to be operating to carry out the following checks. DO NOT STAND IN OUTSIDE WHEN TRUCKS ARE DUMPING |  |  |  |
| 31 | Check oil level on sight glass, top up as required | Only use Shell Tellus 32 lubricant, located in crusher bund lube area |  |  |
| 32 | Check condition of oil | Clean ( )  Dirty ( ) Milky ( ) Metal ( ) |  |  |
| 33 | Check all hydraulic hoses and fittings around oil tank area for damage and leaks |  |  |  |
| 34 | Check and record maximum operating pressure of hydraulic system 180 Bar Max, or 2700 PSI Max (left hand gauge near electrical switch boxes),when operating under full load | Max Pressure PSI |  |  |
| 35 | Check and record the Hammer oil Pressure Hammer oil pressure should be 150 Bar Max (2175psi),(right hand gauge) when using hammer | Max Pressure PSI |  |  |
| 36 | If these pressures are exceeded advise maintenance supervisor |  |  |  |
| 37 | Oil cooler should be switched to auto and the fan should not be operating unless the return oil is very hot to touch | Cooler switched to auto Yes / No (circle) |  |  |
| 38 | Check the following hydraulic cylinders on boom for oil leaks |  |  |  |
| 39 | A. Boom Right hand side.(as you look from control room) | Leaks Yes / No (circle) |  |  |
| 40 | B. Boom left hand side (as you look from control room) | Leaks Yes / No (circle) |  |  |
| 41 | C. Jib | Leaks Yes / No (circle) |  |  |
| 42 | D. Hammer crowd | Leaks Yes / No (circle) |  |  |
| 43 | E. Slew (Go across to base of breaker) | Leaks Yes / No (circle) |  |  |
| 44 | Check all hydraulic hoses for oil leaks. Record any leaking hoses and report to maintenance supervisor | Leaks Yes / No (circle) |  |  |
| **Transmin Rockbreaker - Lubrication System** | | | | |
| 45 | Check grease pot level on pump | Leaks Yes / No (circle) |  |  |
| 46 | Look at all boom points from both sides of dump pocket and back stairs |  |  |  |
| 47 | Is there fresh grease showing at all pins and bushes on the boom, jib, hammer, slew | Yes / No (circle) |  |  |
| 48 | Record which grease lines have been broken off and inform maintenance supervisor |  |  |  |
| **Primary Crusher Circuit Plant Air Compressor** | | | | |
| 49 | AIR / OIL UNDER PRESSURE WILL CAUSE SEVERE PERSONAL INJURY OR DEATH. SHUTDOWN COMPRESSOR AND RELIEVE SYSTEM OF ALL PRESSURE BEFORE REMOVING VALVES, CAPS, PLUGS, FITTINGS, BOLTS AND FILTERS. Ensure you are wearing safety glasses. Do not direct air flow towards others. |  |  |  |
| 50 | Check oil level while unit is operating on level gauge on bottom of separator |  |  |  |
| 51 | Manually operate brass pressure relief valve on top of separator. If not releasing air advise maintenance supervisor |  |  |  |
| 52 | Check for air leaks from compressor to the clutch receiver and from the clutch receiver to the roto seal |  |  |  |
| 53 | Pressure gauge on grease air line should read 800 kPa minimum |  |  |  |
| 54 | Manually operate pressure relief valve near top side of receiver |  |  |  |
| 55 | Before stopping inspect control panel to determine if any error messages are showing that the air filter or oil separator need changing. If other error messages are showing advise maintenance supervisor |  |  |  |
| 56 | Before operators stop plant air compressor they must open the line to the truck work shop air compressor then isolating the plant air compressor. Check that truck air is available at the clutch air receiver by bleeding some air off the receiver pressure relief valve and ensuring that air pressure returns to normal when the relief valve is closed again |  |  |  |
| 57 | Operators to Stop air compressor |  |  |  |
| 58 | Take oil sample from compressor | Take oil sample from bottom of separator, label sample with ID #113-005-095 and send to Reliability Engineering for checking |  |  |
| 59 | Change oil filter | Oil filters are located in crusher cupboard. When down to last to filter left in cupboard advise maintenance supervisor Write the installation date on the side of the new filter |  |  |
| 60 | Change / clean air filter Remove the dust cap and clean with a dry cloth. Do not wash dust cap.   Exchange air filter for new or washed item from inside of crusher cabinet and put unit back on line. Removed air filter can be washed in warm water and detergent and rinsed off with water and left to dry.When dry put in plastic bag and place back in cupboard for reuse.Tag filter and mark number of times it has been used.Replace after 6 washings with new unit When down to last filter advise maint spvr |  |  |  |
| 61 | Check the compressor for any loose or damaged components |  |  |  |
| 62 | Ensure all guards are in place and secure |  |  |  |
| 63 | Check that the hold down bolts are secure |  |  |  |
| 64 | Inspect condition of "V" belts Are they slipping, cracked or shredding? |  |  |  |
| 65 | Inspect condition of pulleys, pulleys are worn out if shiny at the bottom of the grooves |  |  |  |
| **Primary Crusher Circuit Plant Air Compressor - Air Receiver** | | | | |
| 66 | Drain water from gate valve in bottom of receiver at compressor and also at clutch receiver |  |  |  |
| 67 | Check for air leaks from compressor to receiver and from receiver to outlet lines including grease air line |  |  |  |
| **Primary Crusher Circuit Plant Air Compressor - Cooling System** | | | | |
| 68 | Clean all cooling vanes on radiator with degreaser and wash off |  |  |  |
| **Primary Crusher Circuit Plant Air Compressor** | | | | |
| 69 | Operators to restart air compressor and ensure the truck shop air line in re isolated |  |  |  |
| 70 | The operators must run the compressor through a load / unload cycle every week to ensure the overpressure shutdown system is working as follows; 1. Close the air service valve 2. Allow the unit to build up to full unloaded pressure and unload. Wait a short period to allow the oil reservoir to blow down. 3. Press the 'stop - reset' button. 4. Restart when finished servicemans checks and re isolate truck shop air line |  |  |  |
| **Gyratory Primary Crusher - Dust/Fume Scrubber** | | | | |
| 71 | Check for excessive discharge from the scrubber flu, should be very light foggy discharge only. Report the condition to your supervisor | No discharge ( ) Light Discharge ( ) Dusty ( ) (tick one) |  |  |
| 72 | Check belts for correct tension (not bouncing) and signs of slippage (squealing    Weekly   noise) | OK ( ) Not OK ( ) (tick one) |  |  |
| 73 | Check the bearing temperature (should be warm to touch). Record if hot, also any unusual noise or vibration. |  |  |  |
| 74 | Grease bearings (3 pumps of Retinax HD2) |  |  |  |
| **Gyratory Primary Crusher - Crusher dust extraction seal tank pump** | | | | |
| 75 | Check that safety guards are in place and report if damaged. |  |  |  |
| 76 | Report any unusual noises or vibrations coming from the drive, the barrel or the pump wet end areas |  |  |  |
| 77 | Check that the pump, motor and barrel bolts have not vibrated loose. Any loose bolts must be tightened. The motor adjusting bolts must be covered with Denso tape |  |  |  |
| 78 | Check the temperature of the pump bearings.  (By touch - report if hot) | OK ( ) Not OK ( ) (tick one) |  |  |
| 79 | Grease both ends of barrel - 3 shots each end. (Retinax HD2) |  |  |  |
| 80 | Check for excessive leakage from the gland and adjust if required. Report if no adjustment on gland |  |  |  |
| 81 | Ensure that the gland water system is operating. (Clean water must be leaking from the gland) | OK ( ) Not OK ( ) (tick one) |  |  |
| 82 | Check all pipe work and valving for leaks. Report any damage to valves. If an actuator is fitted ensure the retaining bolts are tight |  |  |  |
| 83 | Grease the valve spindles. (Retinax HD2) |  |  |  |
| **Conveyor CV11 - Drive Pulley** | | | | |
| 84 | Check the pulley lagging condition |  |  |  |
| 85 | Check pulley bearing temperatures with Infrared Gun and record Any temperature greater than 75 deg C inform the supervisor immediately | Temp recorded deg C |  |  |
| 86 | Check that the bearing housing bolts are tight |  |  |  |
| **Conveyor CV11 - Snub Pulley** | | | | |
| 87 | Check the pulley lagging condition |  |  |  |
| 88 | Check pulley bearing temperatures with Infrared Gun and record Any temperature greater than 75 deg C inform the supervisor immediately | Temp recorded deg C |  |  |
| 89 | Check that the bearing housing bolts are tight |  |  |  |
| **Conveyor CV11 - Tail Pulley** | | | | |
| 90 | Check the pulley lagging condition |  |  |  |
| 91 | Check pulley bearing temperatures with Infrared Gun and record Any temperature greater than 75 deg C inform the supervisor immediately | Temp recorded deg C |  |  |
| 92 | Check that the bearing housing bolts are tight |  |  |  |
| **Conveyor CV11 - Carrying Idlers** | | | | |
| 93 | Check carry/return, tracking and impact rollers are rotating freely, any seized, noisy, worn, or damaged rollers are to be tagged for replacement |  |  |  |
| 94 | Tag any rollers that require attention (on frame) and record on this sheet which rollers are tagged and need attention. (DO NOT HANG TAG ON PULL WIRE) | Inform maintenance supervisor there are rollers that need replacing |  |  |
| 95 | If rollers have nipples fitted - Grease rollers with 5 shots of grease per month |  |  |  |
| **Conveyor CV11 - Return Idlers** | | | | |
| 96 | Check carry/return, tracking and impact rollers are rotating freely, any seized, noisy, worn, or damaged rollers are to be tagged for replacement |  |  |  |
| 97 | Tag any rollers that require attention (on frame) and record on this sheet which rollers are tagged and need attention. (DO NOT HANG TAG ON PULL WIRE) | Inform maintenance supervisor there are rollers that need replacing |  |  |
| 98 | If rollers have nipples fitted - Grease rollers with 5 shots of grease per month |  |  |  |
| **Conveyor CV11 - Skirting Group** | | | | |
| 99 | Check carry/return, tracking and impact rollers are rotating freely, any seized, noisy, worn, or damaged rollers are to be tagged for replacement |  |  |  |
| 100 | Tag any rollers that require attention (on frame) and record on this sheet which rollers are tagged and need attention. (DO NOT HANG TAG ON PULL WIRE) | Inform maintenance supervisor there are rollers that need replacing |  |  |
| 101 | If rollers have nipples fitted - Grease rollers with 5 shots of grease per month |  |  |  |
| **Conveyor CV11 - Belt** | | | | |
| 102 | Inspect conveyor belt tracking, is the belt running in the centre of the pulleys |  |  |  |
| 103 | Check for belt wear/damage to the carry/return sides and edges |  |  |  |
| 104 | Check conveyor belt for spillage, if required contact maintenance or operations supervisor to correct fault |  |  |  |
| 105 | Check conveyor feed skirting condition and adjustment, skirt rubber should be approximately 3mm off the belt |  |  |  |
| 106 | Check the training idlers (if fitted) are rotating freely, any seized or damaged idlers are to be tagged for replacement |  |  |  |
| 107 | Inspect the condition of the splice joint. Look for tears and rips |  |  |  |
| 108 | Grease all Conveyor Tracking Frame Centre Turntables. (Retinax HD2). |  |  |  |
| **Conveyor CV11 - Belt Scraper** | | | | |
| 109 | Ensure head/tail pulley scrapers are free to ride on the belt |  |  |  |
| 110 | Check condition of scraper material |  |  |  |
| 111 | Inspect condition of scraper security devices |  |  |  |
| 112 | If pneumatic scraper fitted check the operation and security, repair any air leaks |  |  |  |
| 113 | If a spray bar is fitted check that sprays are clear and operating correctly |  |  |  |
| **Conveyor CV14 - Drive Pulley** | | | | |
| 114 | Check the pulley lagging condition |  |  |  |
| 115 | Check pulley bearing temperatures with Infrared Gun and record Any temperature greater than 75 deg C inform the supervisor immediately | Temp recorded deg C |  |  |
| 116 | Check that the bearing housing bolts are tight |  |  |  |
| **Conveyor CV14 - Bend Pulley** | | | | |
| 117 | Check the pulley lagging condition |  |  |  |
| 118 | Check pulley bearing temperatures with Infrared Gun and record Any temperature greater than 75 deg C inform the supervisor immediately | Temp recorded deg C |  |  |
| 119 | Check that the bearing housing bolts are tight |  |  |  |
| **Conveyor CV14 - Take Up Pulley** | | | | |
| 120 | Check the pulley lagging condition |  |  |  |
| 121 | Check pulley bearing temperatures with Infrared Gun and record Any temperature greater than 75 deg C inform the supervisor immediately | Temp recorded deg C |  |  |
| 122 | Check that the bearing housing bolts are tight |  |  |  |
| **Conveyor CV14 - Tail Pulley** | | | | |
| 123 | Check the pulley lagging condition |  |  |  |
| 124 | Check pulley bearing temperatures with Infrared Gun and record Any temperature greater than 75 deg C inform the supervisor immediately | Temp recorded deg C |  |  |
| 125 | Check that the bearing housing bolts are tight |  |  |  |
| **Conveyor CV14 - Carry Idlers** | | | | |
| 126 | Check carry rollers are rotating freely, any seized, noisy, worn, or damaged rollers are to be tagged for replacement |  |  |  |
| 127 | Tag any rollers that require attention (on frame) and record on this sheet which rollers are tagged and need attention. (DO NOT HANG TAG ON PULL WIRE) | Inform maintenance supervisor there are rollers that need replacing |  |  |
| 128 | If rollers have nipples fitted - Grease rollers with 5 shots of grease per month |  |  |  |
| **Conveyor CV14 - Return Idlers** | | | | |
| 129 | Check return rollers are rotating freely, any seized, noisy, worn, or damaged rollers are to be tagged for replacement |  |  |  |
| 130 | Tag any rollers that require attention (on frame) and record on this sheet which rollers are tagged and need attention. (DO NOT HANG TAG ON PULL WIRE) | Inform maintenance supervisor there are rollers that need replacing |  |  |
| 131 | If rollers have nipples fitted - Grease rollers with 5 shots of grease per month |  |  |  |
| **Conveyor CV14 - Impact Idlers** | | | | |
| 132 | Check impact rollers are rotating freely, any seized, noisy, worn, or damaged rollers are to be tagged for replacement |  |  |  |
| 133 | Tag any rollers that require attention (on frame) and record on this sheet which rollers are tagged and need attention. (DO NOT HANG TAG ON PULL WIRE) | Inform maintenance supervisor there are rollers that need replacing |  |  |
| 134 | If rollers have nipples fitted - Grease rollers with 5 shots of grease per month |  |  |  |
| **Conveyor CV14 - Belt** | | | | |
| 135 | Inspect conveyor belt tracking, is the belt running in the centre of the pulleys |  |  |  |
| 136 | Check for belt wear/damage to the carry/return sides and edges |  |  |  |
| 137 | Check conveyor belt for spillage, if required contact maintenance or operations supervisor to correct fault |  |  |  |
| 138 | Check conveyor feed skirting condition and adjustment, skirt rubber should be approximately 3mm off the belt |  |  |  |
| 139 | Check the training idlers (if fitted) are rotating freely, any seized or damaged idlers are to be tagged for replacement |  |  |  |
| 140 | Inspect the condition of the splice joint. Look for tears and rips |  |  |  |
| 141 | Grease all Conveyor Tracking Frame Centre Turntables. (Retinax HD2). |  |  |  |
| **Conveyor CV30 - Drive Pulley** | | | | |
| 142 | Check the pulley lagging condition |  |  |  |
| 143 | Check pulley bearing temperatures with Infrared Gun and record Any temperature greater than 75 deg C inform the supervisor immediately | Temp recorded deg C |  |  |
| 144 | Check that the bearing housing bolts are tight |  |  |  |
| **Conveyor CV30 - Bend Pulley** | | | | |
| 145 | Check the pulley lagging condition |  |  |  |
| 146 | Check pulley bearing temperatures with Infrared Gun and record Any temperature greater than 75 deg C inform the supervisor immediately | Temp recorded deg C |  |  |
| 147 | Check that the bearing housing bolts are tight |  |  |  |
| **Conveyor CV30 - Take Up Pulley** | | | | |
| 148 | Check the pulley lagging condition |  |  |  |
| 149 | Check pulley bearing temperatures with Infrared Gun and record Any temperature greater than 75 deg C inform the supervisor immediately | Temp recorded deg C |  |  |
| 150 | Check that the bearing housing bolts are tight |  |  |  |
| **Conveyor CV30 - Tail Pulley** | | | | |
| 151 | Check the pulley lagging condition |  |  |  |
| 152 | Check pulley bearing temperatures with Infrared Gun and record Any temperature greater than 75 deg C inform the supervisor immediately | Temp recorded deg C |  |  |
| 153 | Check that the bearing housing bolts are tight |  |  |  |
| **Conveyor CV30 - Carry Idlers** | | | | |
| 154 | Check carry rollers are rotating freely, any seized, noisy, worn, or damaged rollers are to be tagged for replacement |  |  |  |
| 155 | Tag any rollers that require attention (on frame) and record on this sheet which rollers are tagged and need attention. (DO NOT HANG TAG ON PULL WIRE) | Inform maintenance supervisor there are rollers that need replacing |  |  |
| 156 | If rollers have nipples fitted - Grease rollers with 5 shots of grease per month |  |  |  |
| **Conveyor CV30 - Return Idlers** | | | | |
| 157 | Check return rollers are rotating freely, any seized, noisy, worn, or damaged rollers are to be tagged for replacement |  |  |  |
| 158 | Tag any rollers that require attention (on frame) and record on this sheet which rollers are tagged and need attention. (DO NOT HANG TAG ON PULL WIRE) | Inform maintenance supervisor there are rollers that need replacing |  |  |
| 159 | If rollers have nipples fitted - Grease rollers with 5 shots of grease per month |  |  |  |
| **Conveyor CV30 - Impact Idlers** | | | | |
| 160 | Check impact rollers are rotating freely, any seized, noisy, worn, or damaged rollers are to be tagged for replacement |  |  |  |
| 161 | Tag any rollers that require attention (on frame) and record on this sheet which rollers are tagged and need attention. (DO NOT HANG TAG ON PULL WIRE) | Inform maintenance supervisor there are rollers that need replacing |  |  |
| 162 | If rollers have nipples fitted - Grease rollers with 5 shots of grease per month |  |  |  |
| **Conveyor CV30 - Belt** | | | | |
| 163 | Inspect conveyor belt tracking, is the belt running in the centre of the pulleys |  |  |  |
| 164 | Check for belt wear/damage to the carry/return sides and edges |  |  |  |
| 165 | Check conveyor belt for spillage, if required contact maintenance or operations supervisor to correct fault |  |  |  |
| 166 | Check conveyor feed skirting condition and adjustment, skirt rubber should be approximately 3mm off the belt |  |  |  |
| 167 | Check the training idlers (if fitted) are rotating freely, any seized or damaged idlers are to be tagged for replacement |  |  |  |
| 168 | Inspect the condition of the splice joint. Look for tears and rips |  |  |  |
| 169 | Grease all Conveyor Tracking Frame Centre Turntables. (Retinax HD2). |  |  |  |
| **Conveyor CV30 - Belt Scraper** | | | | |
| 170 | Ensure head/tail pulley scrapers are free to ride on the belt |  |  |  |
| 171 | Check condition of scraper material |  |  |  |
| 172 | Inspect condition of scraper security devices |  |  |  |
| 173 | If pneumatic scraper fitted check the operation and security, repair any air leaks |  |  |  |
| 174 | If a spray bar is fitted check that sprays are clear and operating correctly |  |  |  |
| **Conveyor CV15 - Fluid Coupling** | | | | |
| 175 | Do not put hands or objects inside guard. Check that safety guards are in place and are not damaged |  |  |  |
| 176 | Remove fluid coupling guard and position fluid coupling fill plug at 02:00 oclock and check the oil level | Fill with Tellus 46 if required |  |  |
| 177 | Refit guard and secure | Inform supervisor of any oil leak from the coupling |  |  |
| **Conveyor CV15 - Drive Pulley** | | | | |
| 178 | Check the pulley lagging condition |  |  |  |
| 179 | Check pulley bearing temperatures with Infrared Gun and record Any temperature greater than 75 deg C inform the supervisor immediately | Temp recorded deg C |  |  |
| 180 | Check that the bearing housing bolts are tight |  |  |  |
| **Conveyor CV15 - High Tention Bend Pulley** | | | | |
| 181 | Check the pulley lagging condition |  |  |  |
| 182 | Check pulley bearing temperatures with Infrared Gun and record Any temperature greater than 75 deg C inform the supervisor immediately | Temp recorded deg C |  |  |
| 183 | Check that the bearing housing bolts are tight |  |  |  |
| **Conveyor CV15 - Snub Pulley** | | | | |
| 184 | Check the pulley lagging condition |  |  |  |
| 185 | Check pulley bearing temperatures with Infrared Gun and record Any temperature greater than 75 deg C inform the supervisor immediately | Temp recorded deg C |  |  |
| 186 | Check that the bearing housing bolts are tight |  |  |  |
| **Conveyor CV15 - Head Pulley** | | | | |
| 187 | Check the pulley lagging condition |  |  |  |
| 188 | Check pulley bearing temperatures with Infrared Gun and record Any temperature greater than 75 deg C inform the supervisor immediately | Temp recorded deg C |  |  |
| 189 | Check that the bearing housing bolts are tight |  |  |  |
| **Conveyor CV15 - Tail Pulley** | | | | |
| 190 | Check the pulley lagging condition |  |  |  |
| 191 | Check pulley bearing temperatures with Infrared Gun and record Any temperature greater than 75 deg C inform the supervisor immediately | Temp recorded deg C |  |  |
| 192 | Check that the bearing housing bolts are tight |  |  |  |
| **Conveyor CV15 - Low Tension Pulley 1 (Tail End)** | | | | |
| 193 | Check the pulley lagging condition |  |  |  |
| 194 | Check pulley bearing temperatures with Infrared Gun and record Any temperature greater than 75 deg C inform the supervisor immediately | Temp recorded deg C |  |  |
| 195 | Check that the bearing housing bolts are tight |  |  |  |
| **Conveyor CV15 - Take Up Pulley** | | | | |
| 196 | Check the pulley lagging condition |  |  |  |
| 197 | Check pulley bearing temperatures with Infrared Gun and record Any temperature greater than 75 deg C inform the supervisor immediately | Temp recorded deg C |  |  |
| 198 | Check that the bearing housing bolts are tight |  |  |  |
| **Conveyor CV15 - Low Tension Pulley 2 (Head End)** | | | | |
| 199 | Check the pulley lagging condition |  |  |  |
| 200 | Check pulley bearing temperatures with Infrared Gun and record Any temperature greater than 75 deg C inform the supervisor immediately | Temp recorded deg C |  |  |
| 201 | Check that the bearing housing bolts are tight |  |  |  |
| **Conveyor CV15 - Carry Idlers** | | | | |
| 202 | Check the pulley lagging condition |  |  |  |
| 203 | Check pulley bearing temperatures with Infrared Gun and record Any temperature greater than 75 deg C inform the supervisor immediately | Temp recorded deg C |  |  |
| 204 | Check that the bearing housing bolts are tight |  |  |  |
| **Conveyor CV15 - Return Idlers** | | | | |
| 205 | Check the pulley lagging condition |  |  |  |
| 206 | Check pulley bearing temperatures with Infrared Gun and record Any temperature greater than 75 deg C inform the supervisor immediately | Temp recorded deg C |  |  |
| 207 | Check that the bearing housing bolts are tight |  |  |  |
| **Conveyor CV15 - Belt** | | | | |
| 208 | Inspect conveyor belt tracking, is the belt running in the centre of the pulleys |  |  |  |
| 209 | Check for belt wear/damage to the carry/return sides and edges |  |  |  |
| 210 | Check conveyor belt for spillage, if required contact maintenance or operations supervisor to correct fault |  |  |  |
| 211 | Check conveyor feed skirting condition and adjustment, skirt rubber should be approximately 3mm off the belt |  |  |  |
| 212 | Check the training idlers (if fitted) are rotating freely, any seized or damaged idlers are to be tagged for replacement |  |  |  |
| 213 | Inspect the condition of the splice joint. Look for tears and rips |  |  |  |
| 214 | Grease all Conveyor Tracking Frame Centre Turntables. (Retinax HD2). |  |  |  |
| **Conveyor CV15 - Belt Scraper** | | | | |
| 215 | Ensure head/tail pulley scrapers are free to ride on the belt |  |  |  |
| 216 | Check condition of scraper material |  |  |  |
| 217 | Inspect condition of scraper security devices |  |  |  |
| 218 | If pneumatic scraper fitted check the operation and security, repair any air leaks |  |  |  |
| 219 | If a spray bar is fitted check that sprays are clear and operating correctly |  |  |  |
| **Conveyor CV15 - Skirting Group** | | | | |
| 220 | Ensure head/tail pulley scrapers are free to ride on the belt |  |  |  |
| 221 | Check condition of scraper material |  |  |  |
| 222 | Inspect condition of scraper security devices |  |  |  |
| 223 | If pneumatic scraper fitted check the operation and security, repair any air leaks |  |  |  |
| 224 | If a spray bar is fitted check that sprays are clear and operating correctly |  |  |  |
| **Conveyor CV60 - Drive Pulley** | | | | |
| 225 | Check the pulley lagging condition |  |  |  |
| 226 | Check pulley bearing temperatures with Infrared Gun and record Any temperature greater than 75 deg C inform the supervisor immediately | Temp recorded deg C |  |  |
| 227 | Check that the bearing housing bolts are tight |  |  |  |
| **Conveyor CV60 - Bend Pulley** | | | | |
| 228 | Check the pulley lagging condition |  |  |  |
| 229 | Check pulley bearing temperatures with Infrared Gun and record Any temperature greater than 75 deg C inform the supervisor immediately | Temp recorded deg C |  |  |
| 230 | Check that the bearing housing bolts are tight |  |  |  |
| **Conveyor CV60 - Carry Idlers** | | | | |
| 231 | Check the pulley lagging condition |  |  |  |
| 232 | Check pulley bearing temperatures with Infrared Gun and record Any temperature greater than 75 deg C inform the supervisor immediately | Temp recorded deg C |  |  |
| 233 | Check that the bearing housing bolts are tight |  |  |  |
| **Conveyor CV60 - Return Idlers** | | | | |
| 234 | Check the pulley lagging condition |  |  |  |
| 235 | Check pulley bearing temperatures with Infrared Gun and record Any temperature greater than 75 deg C inform the supervisor immediately | Temp recorded deg C |  |  |
| 236 | Check that the bearing housing bolts are tight |  |  |  |
| **Conveyor CV60 - Belt** | | | | |
| 237 | Inspect conveyor belt tracking, is the belt running in the centre of the pulleys |  |  |  |
| 238 | Check for belt wear/damage to the carry/return sides and edges |  |  |  |
| 239 | Check conveyor belt for spillage, if required contact maintenance or operations supervisor to correct fault |  |  |  |
| 240 | Check conveyor feed skirting condition and adjustment, skirt rubber should be approximately 3mm off the belt |  |  |  |
| 241 | Check the training idlers (if fitted) are rotating freely, any seized or damaged idlers are to be tagged for replacement |  |  |  |
| 242 | Inspect the condition of the splice joint. Look for tears and rips |  |  |  |
| 243 | Grease all Conveyor Tracking Frame Centre Turntables. (Retinax HD2). |  |  |  |
| **Conveyor CV60 - Belt Scraper** | | | | |
| 244 | Ensure head/tail pulley scrapers are free to ride on the belt |  |  |  |
| 245 | Check condition of scraper material |  |  |  |
| 246 | Inspect condition of scraper security devices |  |  |  |
| 247 | If pneumatic scraper fitted check the operation and security, repair any air leaks |  |  |  |
| 248 | If a spray bar is fitted check that sprays are clear and operating correctly |  |  |  |
| **Conveyor CV60 - Skirting Group** | | | | |
| 249 | Ensure head/tail pulley scrapers are free to ride on the belt |  |  |  |
| 250 | Check condition of scraper material |  |  |  |
| 251 | Inspect condition of scraper security devices |  |  |  |
| 252 | If pneumatic scraper fitted check the operation and security, repair any air leaks |  |  |  |
| 253 | If a spray bar is fitted check that sprays are clear and operating correctly |  |  |  |
| **Conveyor CV61 - Drive Pulley** | | | | |
| 254 | Check the pulley lagging condition |  |  |  |
| 255 | Check pulley bearing temperatures with Infrared Gun and record Any temperature greater than 75 deg C inform the supervisor immediately | Temp recorded deg C |  |  |
| 256 | Check that the bearing housing bolts are tight |  |  |  |
| **Conveyor CV61 - Bend Pulley** | | | | |
| 257 | Check the pulley lagging condition |  |  |  |
| 258 | Check pulley bearing temperatures with Infrared Gun and record Any temperature greater than 75 deg C inform the supervisor immediately | Temp recorded deg C |  |  |
| 259 | Check that the bearing housing bolts are tight |  |  |  |
| **Conveyor CV61 - Take Up Pulley** | | | | |
| 260 | Check the pulley lagging condition |  |  |  |
| 261 | Check pulley bearing temperatures with Infrared Gun and record Any temperature greater than 75 deg C inform the supervisor immediately | Temp recorded deg C |  |  |
| 262 | Check that the bearing housing bolts are tight |  |  |  |
| **Conveyor CV61 - Tail Pulley** | | | | |
| 263 | Check the pulley lagging condition |  |  |  |
| 264 | Check pulley bearing temperatures with Infrared Gun and record Any temperature greater than 75 deg C inform the supervisor immediately | Temp recorded deg C |  |  |
| 265 | Check that the bearing housing bolts are tight |  |  |  |
| **Conveyor CV61 - Carry Idlers** | | | | |
| 266 | Check carry rollers are rotating freely, any seized, noisy, worn, or damaged rollers are to be tagged for replacement |  |  |  |
| 267 | Tag any rollers that require attention (on frame) and record on this sheet which rollers are tagged and need attention. (DO NOT HANG TAG ON PULL WIRE) | Inform maintenance supervisor there are rollers that need replacing |  |  |
| 268 | If rollers have nipples fitted - Grease rollers with 5 shots of grease per month |  |  |  |
| **Conveyor CV61 - Return Idlers** | | | | |
| 269 | Check return rollers are rotating freely, any seized, noisy, worn, or damaged rollers are to be tagged for replacement |  |  |  |
| 270 | Tag any rollers that require attention (on frame) and record on this sheet which rollers are tagged and need attention. (DO NOT HANG TAG ON PULL WIRE) | Inform maintenance supervisor there are rollers that need replacing |  |  |
| 271 | If rollers have nipples fitted - Grease rollers with 5 shots of grease per month |  |  |  |
| **Conveyor CV61 - Impact Idlers** | | | | |
| 272 | Check impact rollers are rotating freely, any seized, noisy, worn, or damaged rollers are to be tagged for replacement |  |  |  |
| 273 | Tag any rollers that require attention (on frame) and record on this sheet which rollers are tagged and need attention. (DO NOT HANG TAG ON PULL WIRE) | Inform maintenance supervisor there are rollers that need replacing |  |  |
| 274 | If rollers have nipples fitted - Grease rollers with 5 shots of grease per month |  |  |  |
| **Conveyor CV61 - Belt** | | | | |
| 275 | Inspect conveyor belt tracking, is the belt running in the centre of the pulleys |  |  |  |
| 276 | Check for belt wear/damage to the carry/return sides and edges |  |  |  |
| 277 | Check conveyor belt for spillage, if required contact maintenance or operations supervisor to correct fault |  |  |  |
| 278 | Check conveyor feed skirting condition and adjustment, skirt rubber should be approximately 3mm off the belt |  |  |  |
| 279 | Check the training idlers (if fitted) are rotating freely, any seized or damaged idlers are to be tagged for replacement |  |  |  |
| 280 | Inspect the condition of the splice joint. Look for tears and rips |  |  |  |
| 281 | Grease all Conveyor Tracking Frame Centre Turntables. (Retinax HD2). |  |  |  |
| **Conveyor CV61 - Belt Scraper** | | | | |
| 282 | Ensure head/tail pulley scrapers are free to ride on the belt |  |  |  |
| 283 | Check condition of scraper material |  |  |  |
| 284 | Inspect condition of scraper security devices |  |  |  |
| 285 | If pneumatic scraper fitted check the operation and security, repair any air leaks |  |  |  |
| 286 | If a spray bar is fitted check that sprays are clear and operating correctly |  |  |  |
| **Conveyor CV41 - Drive Pulley** | | | | |
| 287 | Check the pulley lagging condition |  |  |  |
| 288 | Check pulley bearing temperatures with Infrared Gun and record Any temperature greater than 75 deg C inform the supervisor immediately | Temp recorded deg C |  |  |
| 289 | Check that the bearing housing bolts are tight |  |  |  |
| **Conveyor CV41 - Tail Pulley** | | | | |
| 290 | Check the pulley lagging condition |  |  |  |
| 291 | Check pulley bearing temperatures with Infrared Gun and record Any temperature greater than 75 deg C inform the supervisor immediately | Temp recorded deg C |  |  |
| 292 | Check that the bearing housing bolts are tight |  |  |  |
| **Conveyor CV41 - Carry Idlers** | | | | |
| 293 | Check carry rollers are rotating freely, any seized, noisy, worn, or damaged rollers are to be tagged for replacement |  |  |  |
| 294 | Tag any rollers that require attention (on frame) and record on this sheet which rollers are tagged and need attention. (DO NOT HANG TAG ON PULL WIRE) | Inform maintenance supervisor there are rollers that need replacing |  |  |
| 295 | If rollers have nipples fitted - Grease rollers with 5 shots of grease per month |  |  |  |
| **Conveyor CV41 - Return Idlers** | | | | |
| 296 | Check return rollers are rotating freely, any seized, noisy, worn, or damaged rollers are to be tagged for replacement |  |  |  |
| 297 | Tag any rollers that require attention (on frame) and record on this sheet which rollers are tagged and need attention. (DO NOT HANG TAG ON PULL WIRE) | Inform maintenance supervisor there are rollers that need replacing |  |  |
| 298 | If rollers have nipples fitted - Grease rollers with 5 shots of grease per month |  |  |  |
| **Conveyor CV41 - Impact Idlers** | | | | |
| 299 | Check impact rollers are rotating freely, any seized, noisy, worn, or damaged rollers are to be tagged for replacement |  |  |  |
| 300 | Tag any rollers that require attention (on frame) and record on this sheet which rollers are tagged and need attention. (DO NOT HANG TAG ON PULL WIRE) | Inform maintenance supervisor there are rollers that need replacing |  |  |
| 301 | If rollers have nipples fitted - Grease rollers with 5 shots of grease per month |  |  |  |
| **Conveyor CV41 - Belt** | | | | |
| 302 | Inspect conveyor belt tracking, is the belt running in the centre of the pulleys |  |  |  |
| 303 | Check for belt wear/damage to the carry/return sides and edges |  |  |  |
| 304 | Check conveyor belt for spillage, if required contact maintenance or operations supervisor to correct fault |  |  |  |
| 305 | Check conveyor feed skirting condition and adjustment, skirt rubber should be approximately 3mm off the belt |  |  |  |
| 306 | Check the training idlers (if fitted) are rotating freely, any seized or damaged idlers are to be tagged for replacement |  |  |  |
| 307 | Inspect the condition of the splice joint. Look for tears and rips |  |  |  |
| 308 | Grease all Conveyor Tracking Frame Centre Turntables. (Retinax HD2). |  |  |  |
| **Conveyor CV41 - Belt Scraper** | | | | |
| 309 | Ensure head/tail pulley scrapers are free to ride on the belt |  |  |  |
| 310 | Check condition of scraper material |  |  |  |
| 311 | Inspect condition of scraper security devices |  |  |  |
| 312 | If pneumatic scraper fitted check the operation and security, repair any air leaks |  |  |  |
| 313 | If a spray bar is fitted check that sprays are clear and operating correctly |  |  |  |

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| **Carry Out A Final Walk Around Inspection Of The Area To Ensure All Tasks Are Completed And That There Are No Physical Hazards.** |

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| **9.** | **Defects / Abnormalities** | |
| On job completion all additional work found during this job that requires repair must have a Work Request raised to either complete during this downtime or to be planned for a later date. This document is to be returned to you supervisor on completion. | | |
| **General Equipment Observations / Comments** | | **Priority** |
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| **10.** | **Feedback** | |
| Were the task instructions complete and clear? | | Yes / No |
| Were Isolations and Permits information correct and complete? | | Yes / No |
| Were the materials, tools and equipment lists correct and complete? | | Yes / No |
| General Feedback and any updates to work instruction required: | | |

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| **11.** | **Technician/Tradesperson Sign Off** | | |
| Work has been completed as per instruction. | | | |
| **Technician / Tradesperson’s Name** | | **Signature** | **Date** |
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| **12.** | **Supervisor Sign Off** | | |
| Above tasks have been completed by Technician / Tradesperson as per instruction. | | | |
| **Technician / Tradesman’s Name** | | **Signature** | **Date** |
|  | |  |  |

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| Every person going home safe and healthy every day. |