

| Unit | Model   | Date      | Work Order Details                                                                                                                                                                                                         |
|------|---------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1615 | EC480EL | 6/16/2023 | Clean out track and reinstall back on rollers. Tension track and called up                                                                                                                                                 |
| 1615 | EC480EL | 6/25/2023 | Faults. Find multiple issue. Intake pipe damaged Parts ordered                                                                                                                                                             |
| 1615 | EC480EL | 6/25/2023 | Helped co-worker asses SCR codes Drained def tank and cleaned filter . Air line to def pump blew off , re attached and also found after cooler piping to turbo damaged and leaking . Parts on order Unit down              |
| 1615 | EC480EL | 6/25/2023 | Check unit over drain and fill def, search code, fix broken air line. Remove pans to access hit pipe and boot. Straightened tube couldn't find couplers. Ordered parts                                                     |
| 1615 | EC480EL | 6/30/2023 | SCR codes , repaired air line to DEF pump with O.E.M Joiner , inspected def system : ran tests Made unit sweat a bit moving dirt at pile Cleared codes . Re -installed belly pans Did a quick once over . Put unit back up |
| 1615 | EC480EL | 6/30/2023 | Installed piping, boot and clamps. Straightened out mangled belly pans. Started machine, *scr failure codes. Filled DEF and checked lines and wires. Tried hooking laptop up but tech tool wasn't working.                 |
| 1615 | EC480EL | 7/3/2023  | Check over machine                                                                                                                                                                                                         |
| 1615 | EC480EL | 7/12/2023 | JIC fitting was loose, rusty and full of dirt. Pulled apart, cleaned up and hooked back up. No leaks                                                                                                                       |
| 1615 | EC480EL | 7/16/2023 | Drive to and inspect for leak. Found crack in pipe on main valve body going to swing drives.                                                                                                                               |
| 1615 | EC480EL | 7/16/2023 | Troubleshoot leak found leaking hose on bottom of valve block. Remove hose, make new hose and install. Run unit and check for leak                                                                                         |
| 1615 | EC480EL | 7/17/2023 | Water bowl on filter kept popping off, replaced filter and bowl. Primed and started. Moved machine across pad.                                                                                                             |
| 1615 | EC480EL | 7/21/2023 | Diagnosed found fuel pump gone                                                                                                                                                                                             |
| 1615 | EC480EL | 7/21/2023 | - machine wouldnt fire, found new fuel/wayer separator was installed cross threaded and leaking. - fixed filter issue but machine is not pulling fuel , believe fuel pump is failed. - ken ordered new pump.               |
| 1615 | EC480EL | 7/21/2023 | Replaced cracked hose, was not able to test as machine is down for fuel pump                                                                                                                                               |
| 1615 | EC480EL | 7/27/2023 | Extract broken bolts and weld on boss                                                                                                                                                                                      |
| 1615 | EC480EL | 8/1/2023  | Fix leak.                                                                                                                                                                                                                  |
| 1615 | EC480EL | 8/6/2023  | Turned off night switch. Checked temperatures, pulled air cleaners and rad cap. Started machine, no codes                                                                                                                  |
| 1615 | EC480EL | 8/8/2023  | Visual check. Everything intact. Can't plug laptop into unit. Told operator to run unless power loss                                                                                                                       |

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| 1615 | EC480EL | 8/8/2023   | Diagnose regen issue. No active faults at this time. Will monitor                                                                                                             |
| 1615 | EC480EL | 8/9/2023   | Diagnose and repair regen issue No faults at this time                                                                                                                        |
| 1615 | EC480EL | 8/9/2023   | Locate unit removed pads and loosen track, pull links back together and Denslow welded pin back in, go back to laydown and get some new track pad bolts and put pads back on. |
| 1615 | EC480EL | 8/9/2023   | - got tracks back together and welded pin into damaged links. - waited on laborers to shovel out tracks - set track tension                                                   |
| 1615 | EC480EL | 8/9/2023   | Drive around in the mud looking for machine. Found check codes and perform service regen to clear codes. Sent unit back to work                                               |
| 1615 | EC480EL | 8/9/2023   | Troubleshoot regen code. Plugged in and forced burn. Tested and all looked okay                                                                                               |
| 1615 | EC480EL | 9/5/2023   | Gouge off check guards                                                                                                                                                        |
| 1615 | EC480EL | 9/21/2023  | Repair antenna cable going into radio, crimp new end on.                                                                                                                      |
| 1615 | EC480EL | 9/23/2023  | Found rocker switch in right hand joystick popping out when used, wrapped with electrical tape and re-installed to hold in place.                                             |
| 1615 | EC480EL | 10/3/2023  | Drive to unit inspect remove pin and reinstall with new hardware test unit all good                                                                                           |
| 1615 | EC480EL | 10/3/2023  | Looked unit over and tightened up belly pans                                                                                                                                  |
| 1615 | EC480EL | 10/4/2023  | Remove and replace def hoses that where not allowing def to fill properly                                                                                                     |
| 1615 | EC480EL | 10/7/2023  | Leaking hose on wrist bucket. Loose fitting Tighten and leak test. No leak. She's a go                                                                                        |
| 1615 | EC480EL | 10/7/2023  | Loosen tensioner, get track back on, tension track                                                                                                                            |
| 1615 | EC480EL | 10/7/2023  | Re wrap track and pumped up with grease                                                                                                                                       |
| 1615 | EC480EL | 10/7/2023  | Replace boom line                                                                                                                                                             |
| 1615 | EC480EL | 10/7/2023  | RS aux coupler for bucket tilt fitting loose and leaking . Took apart fittings and re-sealed . Tightened and put back into place . Leak tested . Fluids good                  |
| 1615 | EC480EL | 10/9/2023  | Swap out twist bucket for skeleton bucket                                                                                                                                     |
| 1615 | EC480EL | 10/9/2023  | Swap wrist bucket for skeleton bucket.                                                                                                                                        |
| 1615 | EC480EL | 10/10/2023 | Swap bucket                                                                                                                                                                   |
| 1615 | EC480EL | 10/11/2023 | Right track fell off. Relocate Prep for assembly.                                                                                                                             |
| 1615 | EC480EL | 10/11/2023 | Track fell off again. Help crab walk and try and get back onto the machine. Got tensioner to move a in a bit. Ran out of time                                                 |
| 1615 | EC480EL | 10/11/2023 | Track off in work zone , crab walked unit out of way with co-worker                                                                                                           |
| 1615 | EC480EL | 10/12/2023 | Re installed RH track. Completed undercarriage inspection                                                                                                                     |
| 1615 | EC480EL | 10/12/2023 | Reinstalled track, inspected undercarriage                                                                                                                                    |
| 1615 | EC480EL | 10/16/2023 | Drive to and find hose pinched. Remove and build and install new hose                                                                                                         |
| 1615 | EC480EL | 10/16/2023 | Repair blown hose                                                                                                                                                             |

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| 1615 | EC480EL | 10/20/2023 | Change broken compressor line and regen                                                                                                                                                                    |
| 1615 | EC480EL | 10/20/2023 | Replaced compressor coil, repaired air line leak                                                                                                                                                           |
| 1615 | EC480EL | 10/20/2023 | Ordered hoses for attachment                                                                                                                                                                               |
| 1615 | EC480EL | 10/21/2023 | Removed good hose to get made for other side.                                                                                                                                                              |
| 1615 | EC480EL | 10/21/2023 | Build new hose at poplar, installed and tested.                                                                                                                                                            |
| 1615 | EC480EL | 10/23/2023 | Prime fuel system                                                                                                                                                                                          |
| 1615 | EC480EL | 10/23/2023 | Found fuel filters were changed and system was not primed afterwards, had to re-install fuel bowl to seal properly and primed, cranked unit over till injectors primed and machine ran, left unit running. |
| 1615 | EC480EL | 10/29/2023 | Strip left side. Buff surfaces tap all holes without broken bolts                                                                                                                                          |
| 1615 | EC480EL | 10/29/2023 | Cut track off of hoe                                                                                                                                                                                       |
| 1615 | EC480EL | 10/29/2023 | Strip rollers and tap holes                                                                                                                                                                                |
| 1615 | EC480EL | 10/29/2023 | Cut Track link                                                                                                                                                                                             |
| 1615 | EC480EL | 10/29/2023 | Work on undercarriage. Removing rollers, idler etc. Tap holes abd buff surfaces                                                                                                                            |
| 1615 | EC480EL | 10/29/2023 | Started doing undercarriage                                                                                                                                                                                |
| 1615 | EC480EL | 10/29/2023 | -set up for undercarriage replacement -remove LH track and start pulling rollers                                                                                                                           |
| 1615 | EC480EL | 10/30/2023 | Bolt removal on under side rollers                                                                                                                                                                         |
| 1615 | EC480EL | 10/30/2023 | Chase bolt holes for rollers and guards have one broken bolt drilled out, install all rollers carriers and guards on left side split right track and remove                                                |
| 1615 | EC480EL | 10/30/2023 | Continue on u/c                                                                                                                                                                                            |
| 1615 | EC480EL | 10/30/2023 | Extract roller bolts and cut tracks                                                                                                                                                                        |
| 1615 | EC480EL | 10/30/2023 | Assist with track removal.                                                                                                                                                                                 |
| 1615 | EC480EL | 10/30/2023 | Remove carrier rollers, remove sprocket, remove roller guards, remove all bottom rollers.                                                                                                                  |
| 1615 | EC480EL | 10/30/2023 | Strip other side of rollers                                                                                                                                                                                |
| 1615 | EC480EL | 10/30/2023 | -install LH idler -remove broken roller bolt -install LH top and bottom rollers -block RH side up -remove track                                                                                            |
| 1615 | EC480EL | 10/31/2023 | Install and torque all rollers and idler on RH side. Install roller gaurds                                                                                                                                 |
| 1615 | EC480EL | 10/31/2023 | Undercarriage replacement                                                                                                                                                                                  |
| 1615 | EC480EL | 10/31/2023 | Assist with undercarriage replacement.                                                                                                                                                                     |
| 1615 | EC480EL | 10/31/2023 | Install idler, bolt up rollers                                                                                                                                                                             |
| 1615 | EC480EL | 11/1/2023  | -clean and install new sprockets                                                                                                                                                                           |
| 1615 | EC480EL | 12/29/2023 | Help install tracks                                                                                                                                                                                        |
| 1615 | EC480EL | 12/29/2023 | Install track groups and master pins. Torque master track pad hardware.                                                                                                                                    |

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| 1615 | EC480EL | 12/29/2023 | Install tracks                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 1615 | EC480EL | 1/2/2024   | Cut off ice lugs and start welding new ones on                                                                                                                                                                                                                                                                                                                                                                                              |
| 1615 | EC480EL | 1/2/2024   | Ice lugs                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 1615 | EC480EL | 1/3/2024   | Finish cutting off corks and weld new corks on.                                                                                                                                                                                                                                                                                                                                                                                             |
| 1615 | EC480EL | 1/3/2024   | Ice lugs                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 1615 | EC480EL | 1/10/2024  | Swap ripper for twist wrist                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 1615 | EC480EL | 1/14/2024  | Gouge/weld crack on bucket heel                                                                                                                                                                                                                                                                                                                                                                                                             |
| 1615 | EC480EL | 1/16/2024  | Startup and warm up                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 1615 | EC480EL | 1/16/2024  | Repaired radio                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 1615 | EC480EL | 1/16/2024  | Start unit Avon starting unit had turbo overheat, shut down warning, so then check, coolant, pop, cap, cleaned out air filters, and then turn light switch off and then on again once complete code went away then install radio once I moved bracket to fit new larger Radio                                                                                                                                                               |
| 1615 | EC480EL | 1/17/2024  | Mount radio                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 1615 | EC480EL | 1/21/2024  | Change bucket to ripper and then back to bucket later when they were done                                                                                                                                                                                                                                                                                                                                                                   |
| 1615 | EC480EL | 1/22/2024  | Swap ripper attachment onto unit                                                                                                                                                                                                                                                                                                                                                                                                            |
| 1615 | EC480EL | 1/22/2024  | Remove ripper from unit and install bucket                                                                                                                                                                                                                                                                                                                                                                                                  |
| 1615 | EC480EL | 1/22/2024  | Took ripper off and installed the bucket                                                                                                                                                                                                                                                                                                                                                                                                    |
| 1615 | EC480EL | 1/23/2024  | Swap out bucket for ripper on unit.                                                                                                                                                                                                                                                                                                                                                                                                         |
| 1615 | EC480EL | 1/23/2024  | Unit was not close to where the ripper shank was had to move unit and swapped bucket for ripper shank                                                                                                                                                                                                                                                                                                                                       |
| 1615 | EC480EL | 1/24/2024  | Bucket swap                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 1615 | EC480EL | 1/24/2024  | Drove to 1667, removed lower kick window from unit, drove to 1615, removed cracked kick window and replaced with good one, ordered new window for replacement in 1667.                                                                                                                                                                                                                                                                      |
| 1615 | EC480EL | 1/25/2024  | Found hard pipe leaking removed pipe and had it welded .                                                                                                                                                                                                                                                                                                                                                                                    |
| 1615 | EC480EL | 1/25/2024  | Inspect and install tube and lines                                                                                                                                                                                                                                                                                                                                                                                                          |
| 1615 | EC480EL | 1/28/2024  | Drive to unit, remove plastic and rubber from joystick, tighten jam nut, reinstall lock, plastic and rubber.                                                                                                                                                                                                                                                                                                                                |
| 1615 | EC480EL | 1/29/2024  | Drove to unit, measured wedge bolt still in place, drove back to lay down and looked for a bolt, couldn't find a bolt in the sea can, drove out to k-block to remove bolt from downed unit, removed bolt from 1667, drove back out to 117 to install bolt, cleaned out bolt hole in wedge, cleaned peat moss from mating surface, installed new bolt into wedge, tightened and hammered until bolts stopped turning. Returned unit to work. |

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| 1615 | EC480EL | 1/31/2024 | Drove out to 1667, replaced wedge bolt taken for 1615                                                                                                                                                |
| 1615 | EC480EL | 2/4/2024  | Drove to unit didn't have parts to fix it had to drive back with a new antenna and cable end to plug into radio. Radio is working now                                                                |
| 1615 | EC480EL | 2/5/2024  | Get bucket brought to unit, try and locate fittings and hoses to make work Order prts                                                                                                                |
| 1615 | EC480EL | 2/6/2024  | Change bucket                                                                                                                                                                                        |
| 1615 | EC480EL | 2/8/2024  | Remove and reinstall radio, install mag mic holder                                                                                                                                                   |
| 1615 | EC480EL | 2/11/2024 | Check over unit for cross shift.                                                                                                                                                                     |
| 1615 | EC480EL | 2/12/2024 | Perform pre shift inspection on unit.                                                                                                                                                                |
| 1615 | EC480EL | 2/14/2024 | Charged batteries and boosted unit master was left on                                                                                                                                                |
| 1615 | EC480EL | 2/15/2024 | Travel out to the 117 and found unit located where the line went on the unit installed new o rings in the fittings installed the new line test for leaks sent back to work                           |
| 1615 | EC480EL | 2/18/2024 | Got to unit hooked up laptop found air pressure code. Op-ed hood found coil broken off. Parts on Order                                                                                               |
| 1615 | EC480EL | 2/24/2024 | Swapped cracked bucket for good bucket.                                                                                                                                                              |
| 1615 | EC480EL | 2/24/2024 | Repair bracket for tube coming off compressor. Hook up lines. Regen unit and clear SCR codes                                                                                                         |
| 1615 | EC480EL | 2/24/2024 | #NAME?                                                                                                                                                                                               |
| 1615 | EC480EL | 2/24/2024 | Removed and installed hardline to compressor. Fixed seatbelt                                                                                                                                         |
| 1615 | EC480EL | 2/24/2024 | Removed cracked bucket and found one by fuel bay. Didn't have a loader to move it                                                                                                                    |
| 1615 | EC480EL | 3/18/2024 | Joystick nut loose. Positiin joystick and Tighten up                                                                                                                                                 |
| 1615 | EC480EL | 3/18/2024 | Tighten joystick                                                                                                                                                                                     |
| 1615 | EC480EL | 3/20/2024 | Checked over unit, added DEF fluid                                                                                                                                                                   |
| 1615 | EC480EL | 3/20/2024 | Diagnose intermediate horn. Take apart joystick and check for loose connections/ rubbing wires. Put direct power to each horn and sure they are working properly. Horn button faulty. Parts ordered. |
| 1615 | EC480EL | 3/20/2024 | Look up parts for Calvin                                                                                                                                                                             |
| 1615 | EC480EL | 3/21/2024 | Disassemble left control handle horn switch wiring. Install new switch. Reassemble and test - good.                                                                                                  |
| 1615 | EC480EL | 3/22/2024 | Got to unit found code for LH joystick code went away. Found roller rocker switch on the back of the joystick is bad. Looked up parts and ordered them                                               |
| 1615 | EC480EL | 3/23/2024 | Removed bucket from unit, cleaned mud and debris from mating surfaces, installed ripper attachment onto unit.                                                                                        |

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| 1615 | EC480EL | 3/25/2024 | Got to unit check wiring again removed handle checked wiring inside didn't find anything wrong. Installed handle and couldn't get it to code again.                                                                                                                            |
| 1615 | EC480EL | 3/26/2024 | Resecure trackpad with new hardware.                                                                                                                                                                                                                                           |
| 1615 | EC480EL | 3/26/2024 | Track pad falling off replaced bolts and reinstalled                                                                                                                                                                                                                           |
| 1615 | EC480EL | 3/28/2024 | Adjust and tighten joystick told opps to stop twisting on it we can adjust it's properly                                                                                                                                                                                       |
| 1615 | EC480EL | 4/1/2024  | Assisted welder with setting up unit for bucket repairs, flipped cutting edge once repairs completed.                                                                                                                                                                          |
| 1615 | EC480EL | 4/1/2024  | Gouge and weld bucket cracks Remove, clean, spin around and install cutting edge                                                                                                                                                                                               |
| 1615 | EC480EL | 4/1/2024  | Travel to unit installed cutting edge after welder was done making repairs                                                                                                                                                                                                     |
| 1615 | EC480EL | 4/29/2024 | Drive out to unit. Re attach joystick to knob                                                                                                                                                                                                                                  |
| 1615 | EC480EL | 5/1/2024  | Tried to attach joystick to mount again. Ball and socket is too worn out. Ordered new RH joystick                                                                                                                                                                              |
| 1615 | EC480EL | 5/8/2024  | Replace joystick. Drive out to unit. Took some time to get there with the bad road conditions due to the rain. Remove old, broken joystick Unhook the wiring for all the buttons. I had to take the consul. Install the new joystick test run. Buttons on the joystick working |
| 1615 | EC480EL | 5/27/2024 | Travel to unit found fan belt missing checked pulleys they are good looked up belt and ordered new belt                                                                                                                                                                        |
| 1615 | EC480EL | 5/27/2024 | Complaint of coolant leak. Found fan belt to be gone, unit most likely overheated causing coolant overfill. Parts ordered                                                                                                                                                      |
| 1615 | EC480EL | 5/27/2024 | Inspect unit for overheat. Failed serpentine belt. Parts ordered                                                                                                                                                                                                               |
| 1615 | EC480EL | 5/28/2024 | Remove covers. Install new belt. Fill up coolant and hydraulic oil. Call unit up                                                                                                                                                                                               |
| 1615 | EC480EL | 5/30/2024 | Diagnosed scr code found air line broken. Found hydraulic oil leaking field washed unit found cooler line leaking fixed line need to test for leaks                                                                                                                            |
| 1615 | EC480EL | 5/31/2024 | Finished putting the rest back together filled hydraulic fluid and started unit checked for leaks oil leak fixed. Scr code had no air pressure fixed air leak codes went away ran tests in the computer on scr system passed all test. Ran a regen and put it to work          |
| 1615 | EC480EL | 6/1/2024  | Got to unit removed guards and belly pan. Found alternator belt gone. Looked up parts and ordered new belts. Checked idlers and pulleys                                                                                                                                        |
| 1615 | EC480EL | 6/11/2024 | Diagnose coolant leak, inspect unit and found top rad hose blown in half, checked seacan for parts but did not have anything. Parts ordered.                                                                                                                                   |
| 1615 | EC480EL | 6/12/2024 | Got coolant hoses installed found more coolant hoses that were hard replaced those hoses. Found compressor coil bracket bolts missing found bolts and secured bracket.                                                                                                         |

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| 1615 | EC480EL | 6/22/2024 | Travel to unit checked pressure in A/C system there is no pressure did not have a adapter to hook to the A/C tank                                                                                                                                                                                                                                            |
| 1615 | EC480EL | 6/23/2024 | Installed panelling, looked up service information for charging procedure and location, vacuumed system and charged, tested. Reinstalled panelling                                                                                                                                                                                                           |
| 1615 | EC480EL | 6/23/2024 | Travel to the unit there is no active codes                                                                                                                                                                                                                                                                                                                  |
| 1615 | EC480EL | 6/30/2024 | Perform burn on unit                                                                                                                                                                                                                                                                                                                                         |
| 1615 | EC480EL | 7/2/2024  | Diagnosed throttle valve code , not allowing passive regeneration, repaired wiring and tested unit , codes cleared .                                                                                                                                                                                                                                         |
| 1615 | EC480EL | 7/2/2024  | Attempt to disassemble connector                                                                                                                                                                                                                                                                                                                             |
| 1615 | EC480EL | 7/2/2024  | Air line burst, removed damage porting and a few mounts to get enough length to repair, air line is in rough shape and will fail again soon, parts on order                                                                                                                                                                                                  |
| 1615 | EC480EL | 7/3/2024  | -Shovelled out around tracks to gain access to the stump pans. -Dropped stump pans and cleaned out a ton of deff crystallized mud to gain access to lines . - started routing new line .                                                                                                                                                                     |
| 1615 | EC480EL | 7/4/2024  | -Replaced air line from def header back to air tank - ran service regen but blew another air line at a repair splice at 56%. - re spliced line and order a replacement - re ran a service regen an all codes cleared - blew out rad and coolers, was very plugged up and seen stored codes for high temperatures                                             |
| 1615 | EC480EL | 7/6/2024  | Checked unit over                                                                                                                                                                                                                                                                                                                                            |
| 1615 | EC480EL | 7/9/2024  | Travel to unit set up work area dropped pans and removed the damaged air line and installed anew air line with new air fittings                                                                                                                                                                                                                              |
| 1615 | EC480EL | 8/1/2024  | Found lower rad hose leaking and hose leaking to top of wabasto fixed hose and topped coolant up                                                                                                                                                                                                                                                             |
| 1615 | EC480EL | 8/4/2024  | Recharge A/C                                                                                                                                                                                                                                                                                                                                                 |
| 1615 | EC480EL | 8/4/2024  | Repaired AC problem                                                                                                                                                                                                                                                                                                                                          |
| 1615 | EC480EL | 8/5/2024  | Got to unit found air line pulled apart put fitting back together and ordered more fittings                                                                                                                                                                                                                                                                  |
| 1615 | EC480EL | 8/13/2024 | Left hand boom hose leaking. Inspect source of leak, order replacement hose.                                                                                                                                                                                                                                                                                 |
| 1615 | EC480EL | 8/17/2024 | Replace leaking hose and run unit to test for leaks.                                                                                                                                                                                                                                                                                                         |
| 1615 | EC480EL | 8/23/2024 | Travel to the unit moved it to a safer place to work on it the hydraulic temperature gauge jumps all over the place checked wire it is good checked temperature when the unit is running temperature sensor is reading higher than what the oil in the tank is so as it warms up it will read that the temperature is to high ordered new temperature sensor |
| 1615 | EC480EL | 8/23/2024 | Help Kevin tshot hydraulic oil temp sensor code                                                                                                                                                                                                                                                                                                              |

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| 1615 | EC480EL | 9/4/2024   | Drove to unit, hooked up computer to check for codes, only code is for the hydraulic oil temperature sensor, went through troubleshooting steps, removed plastic tee from wiring harness and found rubber through wires inside loom, repaired rubbed wiring and tested unit.                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 1615 | EC480EL | 9/4/2024   | Diag and get to code repeatedly. Found damaged wires in loom near sensor. Heat shrink and test again. Codes didn't come back                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 1615 | EC480EL | 9/4/2024   | Found code for hydraulic high temperature hooked up computer ran test coded when testing fan. Check spool valves cleaned connections got pulled off to fix something else                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 1615 | EC480EL | 9/5/2024   | Recharge a/c system                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 1615 | EC480EL | 9/29/2024  | Find unit and look over. Pull pan off bottom then got called off                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 1615 | EC480EL | 9/30/2024  | TS coolant leak, had coolant filled and found it was pouring out of the weep hole , looked up and ordered new water pump, seals/gaskets and a new thermostat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 1615 | EC480EL | 10/5/2024  | Drove to unit, removed belt, tensioner and idler pulley, removed water pump from unit, installed new water pump with new gasket, removed thermostat from unit and installed new thermostat, re-installed pulleys and belt. called for lube team to come fill coolant, combo truck got stuck multiple times trying to get to unit, had to help pull unit out of mud and get it close enough to fill coolant. Filled coolant and ran unit up to temperature and checked for leaks, no leaks present. Topped coolant level up after running. Combo truck got stuck multiple times trying to leave and had to get him out. Installed previously removed hood panels and belly pans. Unit is good to go back to work. |
| 1615 | EC480EL | 10/7/2024  | Remove belly pans and clean pete moss out. Straighten bent pans and replace missing bolts.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 1615 | EC480EL | 10/7/2024  | Travel to unit set up work area dropped pans and cleaned them all out re installed the pans                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 1615 | EC480EL | 10/7/2024  | Replace front glass kick window with lexan in preparation for stacking                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 1615 | EC480EL | 10/9/2024  | Asked to check out for hydraulic leak. Couldn't get to unit and operations was unable to take one of our guys to it.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 1615 | EC480EL | 10/10/2024 | Rescue excavator                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 1615 | EC480EL | 10/10/2024 | Open finals and remove drive shaft fill the tank with oil                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 1615 | EC480EL | 10/11/2024 | Rescue excavator                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 1615 | EC480EL | 10/11/2024 | Head to machine and asses leak and rig up slings for tow                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 1615 | EC480EL | 10/12/2024 | Drive out to unit in sherp and check progress on digging it out                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 1615 | EC480EL | 10/13/2024 | Help operations with removal of machine from the mud                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 1615 | EC480EL | 10/13/2024 | Help operations get how out of muskeg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |



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| 1615 | EC480EL | 10/14/2024 | Make plan with operations to remove unit from skag                                                                                                                                                                                                       |
| 1615 | EC480EL | 10/14/2024 | Rescue broken hoe from muskeg                                                                                                                                                                                                                            |
| 1615 | EC480EL | 10/15/2024 | Drag machine to better ground to get service truck to it. Shovel out circle. Remove belly pans asses damage and parts needed                                                                                                                             |
| 1615 | EC480EL | 10/21/2024 | Attempt to get access to unit, got stuck, towed out                                                                                                                                                                                                      |
| 1615 | EC480EL | 11/6/2024  | Removal of travel lines with compacted dirt holding all the lines in. Frozen and stuck. Install new hoses                                                                                                                                                |
| 1615 | EC480EL | 11/6/2024  | unthaw travel lines, remove and reinstall new lines on left side, unthaw right side                                                                                                                                                                      |
| 1615 | EC480EL | 11/7/2024  | install rh travel motor lines, remove final covers, clean, re-install covers. fill hydraulics, fill finals, move unit down road.                                                                                                                         |
| 1615 | EC480EL | 11/7/2024  | Finish removal of frozen line. Install lines for right side travel. Lines were swapped wrong. Reseal finals. Top up hyd tank and finals. Walk machine out to somewhere clean and dry. Stuck for most of the morning and pm                               |
| 1615 | EC480EL | 11/8/2024  | Finish install of hyd hoses and clamps                                                                                                                                                                                                                   |
| 1615 | EC480EL | 11/9/2024  | Straightened all the stump pans and the brackets that were bent installed all the pans but two underneath the hydraulic pump need to remove the suction pipe on the bottom of the pump for repair ordered parts to install the pipe after it is repaired |
| 1615 | EC480EL | 11/9/2024  | Checked unit over                                                                                                                                                                                                                                        |
| 1615 | EC480EL | 11/9/2024  | Straighten belly pans for install, start figuring out new stump pan build.                                                                                                                                                                               |
| 1615 | EC480EL | 11/9/2024  | Get torches out and help Kevin straighten mounts for panels Found main suction pipe for hydro pumps cracked at welds. Will need to be removed and repaired. Left on as welders are cooking this                                                          |
| 1615 | EC480EL | 11/9/2024  | walk unit from r1 to laydown , remove stump pans, take unit to wash bay.                                                                                                                                                                                 |
| 1615 | EC480EL | 11/9/2024  | Install belly pans. Inspect for leak. Order parts                                                                                                                                                                                                        |
| 1615 | EC480EL | 11/9/2024  | Drive out to machine to bring to the yard and remove belly pans for wash bay. Get stuck. Okay tug a war for 2 hours walk machine to the yard remove the pans                                                                                             |
| 1615 | EC480EL | 11/10/2024 | Straighten out old pan, trace and cut out new thicker and hinged pan. Cut out and drill new mounting blocks                                                                                                                                              |
| 1615 | EC480EL | 11/11/2024 | assist welders with fitting up belly pan                                                                                                                                                                                                                 |
| 1615 | EC480EL | 11/11/2024 | Remove bracket for rear camera. Heated and bent back into place. Disassembled camera. Respired all 4 wires. Installed on bracket. Counterweight needs to be steamed                                                                                      |
| 1615 | EC480EL | 11/11/2024 | Clean out circle, weld in new blocks for mounting belly pan, install belly pan and fix other remaining pans on back and install                                                                                                                          |

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| 1615 | EC480EL | 11/11/2024 | Run machine find bud leak on suction pipe for hyd pump. Clean up area remove bolts in the way. Get the welder to weld it up. Run machine hot and check for leaks                                                                                                                                                                                |
| 1615 | EC480EL | 11/12/2024 | Run new harness for camera                                                                                                                                                                                                                                                                                                                      |
| 1615 | EC480EL | 11/13/2024 | Look over machine for work worthy operation. Repaired a few leaks. Installed new thrust washer in right final. Re seal cover and install new bolts                                                                                                                                                                                              |
| 1615 | EC480EL | 11/25/2024 | Perform 250 hour service + sample & change swing drive oil on unit.                                                                                                                                                                                                                                                                             |
| 1615 | EC480EL | 11/25/2024 | 250hr service, changed swing oil and finals                                                                                                                                                                                                                                                                                                     |
| 1615 | EC480EL | 12/24/2024 | Left quad handle broken Temp repair completed New handle ordered                                                                                                                                                                                                                                                                                |
| 1615 | EC480EL | 12/28/2024 | Remove front glass and remove glass from fame. Slip frame someone glued the window into. Remove brokenness and glue in new glass. Left to dry will have to be installed later                                                                                                                                                                   |
| 1615 | EC480EL | 12/28/2024 | Repair broken glass                                                                                                                                                                                                                                                                                                                             |
| 1615 | EC480EL | 12/29/2024 | #NAME?                                                                                                                                                                                                                                                                                                                                          |
| 1615 | EC480EL | 1/2/2025   | 3000hr service                                                                                                                                                                                                                                                                                                                                  |
| 1615 | EC480EL | 1/20/2025  | Unit leaking. Remove line. Other line Rough Replace both lines.                                                                                                                                                                                                                                                                                 |
| 1615 | EC480EL | 1/22/2025  | Re bolt on bent cutting edge                                                                                                                                                                                                                                                                                                                    |
| 1615 | EC480EL | 1/22/2025  | Replaced missing bolts in cutting edge. Torqued to spec.                                                                                                                                                                                                                                                                                        |
| 1615 | EC480EL | 1/29/2025  | Inspect unit. Had starter code. Dropped rear panels and check voltages at starter. We're good. Starter missing a nut. Ordered new starter and three new nuts                                                                                                                                                                                    |
| 1615 | EC480EL | 1/31/2025  | Change out starter on unit, modify wires to fit starter configuration. Reinstall belly pans, attempt to fire up unit but it's dead. Hook up two booster packs to unit and attempt again. Unit fired up.                                                                                                                                         |
| 1615 | EC480EL | 1/31/2025  | Replace starter. Get unit running                                                                                                                                                                                                                                                                                                               |
| 1615 | EC480EL | 2/1/2025   | Tshoot no heat, removed paneling and checked coolant lines, one smoking hot and one cold as ice entering the heater core. Bypassed blend door actuator, no change. Ordered heater core and actuator. Blocked off outdoor intake to see if I could get enough heat from the core to run until parts show. No cigar. Locked out until parts show. |
| 1615 | EC480EL | 2/6/2025   | Travel to laydown, grabbed parts. Travel back to machine and installed new heater core and blend door actuator. Tested unit                                                                                                                                                                                                                     |
| 1615 | EC480EL | 2/6/2025   | Diagnose faulty block heat. Solenoid faulty. Mother parts                                                                                                                                                                                                                                                                                       |
| 1615 | EC480EL | 2/6/2025   | Diagnose grid heater fault and unit having no heat. Inspect and test wiring for grid heater. Found power going into the solenoid but not coming out of it or going to the grid heater. Solenoid no good. Engine coolant temp getting high very quick but no heater in cab. Bad thermostats. Parts ordered                                       |

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| 1615 | EC480EL | 2/6/2025  | Sampled engine and finals. Changes finals oil. Air filter and outer cab filter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 1615 | EC480EL | 2/7/2025  | Fired up unit, got up to temp and tested cooling system, no heat in cab. Used temp gun to check engine and rad temp. Temp was good. Removed rad cap and inspected found bubbles streaming into reservoir. Hooked up pressure tester and found pressure drops slightly but takes a while. Ran unit with pressure tester on and had good heat pulled off pressure tester and lost heat right away. Removed Venturi tube and inspected egr cooler, found egr to be dry and appears to not be leaking. Traveled to laydown and grabbed injector cups and ordered injector seals and tested grid heater codes found relay failed for gridheater. Ordered parts. Waited for service to drain coolant. |
| 1615 | EC480EL | 2/7/2025  | Find coolant drain for luber                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 1615 | EC480EL | 2/7/2025  | Drove to unit and helped lube team drain coolant.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 1615 | EC480EL | 2/8/2025  | Tried extracting cups, tooling not stripped out                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 1615 | EC480EL | 2/9/2025  | Removed and installed injector cups, travel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 1615 | EC480EL | 2/10/2025 | Tried getting heater to run, went and found other heater and put on heater got going and returned heater to another unit. Installed injector cup and injectors and torqued rockershaft. Checked backlash following procedure in Prosis                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 1615 | EC480EL | 2/11/2025 | Flushed cooling system, flushed lines and rerouted heater lines, bypassed turbo cooling lines and air compressor lines and tested. Problem resolved. Hooked everything back up proper and tested. Looked into emissions codes.                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 1615 | EC480EL | 2/12/2025 | Locate and change out grid heater relay, found inline fuse to be blown. Will need to order new fuse to finish repairing grid heater issues.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 1615 | EC480EL | 2/12/2025 | Engine oil and filters changed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 1615 | EC480EL | 2/13/2025 | -check over unit -several CAN and aftertreatment codes -DEF gauge reading empty -set up tarp and heater on DEF tank and try to fill, tank is full -travel to laydown for vocom adapter -fight with TechTool to connect - TechTool saying DEF level is at 255% -also has NOx and subnet codes on the ECM and ACM -do preliminary checks, all good. Need breakout harness to check main harness -repair air hose from air dryer                                                                                                                                                                                                                                                                   |
| 1615 | EC480EL | 2/13/2025 | Start looking into codes. Unit has data link issues on sub engine data link. Found has 300 ohms between twisted wire pair and frame. Ran out of time to determine exact cause                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 1615 | EC480EL | 2/17/2025 | Go to unit. Read up on can network having issue, test good at 60 ohm. Remove little components from system, go back to yard grab ecu and after treatment module, plug in find engine controller made can network come back to life, unit is running leave for night shift to use.                                                                                                                                                                                                                                                                                                                                                                                                               |

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| 1615 | EC480EL | 2/18/2025 | T/s def system derate, find issue with def pressure sensor. Test wiring is good. Ecm is good, find low voltage through the sensor. Will need sensor, going to install lifetime filter instead.                                                                                                                                                               |
| 1615 | EC480EL | 2/20/2025 | -replace joysticks                                                                                                                                                                                                                                                                                                                                           |
| 1615 | EC480EL | 2/23/2025 | Remove exhaust can and remove hood, punch out filters. Get the unit running egr block off. Install ecu back into unit. Run it. Runs good.                                                                                                                                                                                                                    |
| 1615 | EC480EL | 2/23/2025 | Work with mechanic to remove muffler system from machine with crane, oxy fuel cut stuck bolts, cut into muffler, remove exhaust packing, weld exhaust housing back together, drill out broken bolt housings                                                                                                                                                  |
| 1615 | EC480EL | 2/24/2025 | Coolant leak. Remove belly pans. Top up coolant run. Too much steam to locate leak. Will need a pressure tester to properly locate leak. Got pulled off unit to start 1757. Further repairs required. Leak is locate right side of engine towards the front. Possible egr cooler or piping                                                                   |
| 1615 | EC480EL | 2/25/2025 | Drive to w4 find leaking heater hose. Cut back and install back onto barb.                                                                                                                                                                                                                                                                                   |
| 1615 | EC480EL | 3/3/2025  | Pushed in stick cylinder pin, rod end, set up machine for mark to weld the tang back on and secure pin.                                                                                                                                                                                                                                                      |
| 1615 | EC480EL | 3/3/2025  | Weld broken ear on pin                                                                                                                                                                                                                                                                                                                                       |
| 1615 | EC480EL | 3/8/2025  | Call over unit, inspect edge and take measurements. Check inventory, none in stock. Stock at poplar                                                                                                                                                                                                                                                          |
| 1615 | EC480EL | 3/9/2025  | Drive to W4, measure existing cutting edge to know what is needed for replacement                                                                                                                                                                                                                                                                            |
| 1615 | EC480EL | 3/9/2025  | Drive out to machine and measure bucket edge                                                                                                                                                                                                                                                                                                                 |
| 1615 | EC480EL | 3/9/2025  | Remove edge install wrong edge, get right edge installed                                                                                                                                                                                                                                                                                                     |
| 1615 | EC480EL | 3/9/2025  | Remove edge, clean mating surfaces, wrong edge brought out to us, install new edge, tighten hardware                                                                                                                                                                                                                                                         |
| 1615 | EC480EL | 3/11/2025 | Drove to unit, for apparent codes, found unit with LH track off machine in the middle of a lift, crab walked unit to level ground to assess situation, track link broken and tracks plugged completely full of mud, instructed operations to heat track and clean out. Unit will need new track link installed at least and rest of undercarriage inspected. |
| 1615 | EC480EL | 3/11/2025 | Get to unit and check over. Found tracks plugged solid with mud and rh track off on the inside of the idler and sprocket, found broken track link, damaged sprocket and broken grease lines for swing bearing. Crab walked onto level ground. Will need tracks cleaned to make parts list                                                                    |
| 1615 | EC480EL | 3/12/2025 | Cut keeper pin with torch, hammer track pin out                                                                                                                                                                                                                                                                                                              |
| 1615 | EC480EL | 3/15/2025 | Relocate unit to appropriate loading area                                                                                                                                                                                                                                                                                                                    |

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| 1615 | EC480EL | 3/15/2025 | -check over unit, no engine oil on dipstick -call and wait for oil -wait for support hoe -assist welder welding broken link -wrap and pin track to limp onto truck                                                                                                       |
| 1615 | EC480EL | 3/15/2025 | Get track out from under machine, split tracks so they can be welded back together, weld tracks, rewrap and pin and get ready for site removal                                                                                                                           |
| 1615 | EC480EL | 3/15/2025 | Start and warm machine. Move out of the way for operations                                                                                                                                                                                                               |
| 1615 | EC480EL | 3/15/2025 | Drive to w4, assist mechanic and welder with track reinstall for transport                                                                                                                                                                                               |
| 1615 | EC480EL | 3/23/2025 | Helped chip tracks and put tracks back on                                                                                                                                                                                                                                |
| 1615 | EC480EL | 3/23/2025 | Split/then reattach track. Gouge out pin and weld pin back in.                                                                                                                                                                                                           |
| 1615 | EC480EL | 3/25/2025 | 500hr service                                                                                                                                                                                                                                                            |
| 1615 | EC480EL | 3/25/2025 | Full service complete                                                                                                                                                                                                                                                    |
| 1615 | EC480EL | 5/1/2025  | steam unit                                                                                                                                                                                                                                                               |
| 1615 | EC480EL | 7/11/2025 | Removed RH final put newly rebuilt one in. Torqued sprocket to proper spec. final mounting bolts need new ones parts ordered.                                                                                                                                            |
| 1615 | EC480EL | 7/11/2025 | Remove old final drive install new final drive sprocket on torqued 550 ft lbs                                                                                                                                                                                            |
| 1615 | EC480EL | 7/12/2025 | Rain day                                                                                                                                                                                                                                                                 |
| 1615 | EC480EL | 7/13/2025 | Suck up trays for mechanic                                                                                                                                                                                                                                               |
| 1615 | EC480EL | 7/13/2025 | Connect all hose to the travel motor, installed bottom rollers torque to proper spec and wrap track. Clean up work area.                                                                                                                                                 |
| 1615 | EC480EL | 7/13/2025 | Finish installing hoses to final, clean surfaces, place rollers rh side torque wrap right track                                                                                                                                                                          |
| 1615 | EC480EL | 7/14/2025 | Installed bottom rollers and guards on LH torque to proper spec. Removed sprocket then the final ready to get sent out. Clean up work area.                                                                                                                              |
| 1615 | EC480EL | 7/14/2025 | Install left hand rollers torqued to 400 ft lbs tap holes install carriers not tightened yet, remove sprocket and left final drive waiting on new one                                                                                                                    |
| 1615 | EC480EL | 7/14/2025 | Fill right final with oil, tightened right side track                                                                                                                                                                                                                    |
| 1615 | EC480EL | 7/15/2025 | Fix Multiple bucket cracks.                                                                                                                                                                                                                                              |
| 1615 | EC480EL | 7/19/2025 | Installed new hardware on the RH final mounting bolts torque to proper spec. Installed master pad link and torque it to spec.                                                                                                                                            |
| 1615 | EC480EL | 7/21/2025 | Grab LH final from parts brought to the unit set up work area clean mating surfaces installed final not torque put the sprocket not torque as well continue the following day. Clean up work area.                                                                       |
| 1615 | EC480EL | 7/22/2025 | Torque Lh final mounting bolts and sprocket to proper spec, hooked up all hoses on the motor and replaced all o-rings with new ones. Grab fluids from lube c-can topped up hyd and final. Run check machine no leaks. Wrap track and pinned will continue following day. |