

ID	Type	Unit	TrackingDate	RecordedHrs	Supplier	Description	Material
273442	CTT	C22	4/12/2007	1028		Changed hydraulic and transmission filters. Changed transmission oil.	
273443	CTT	C22	5/8/2007	1110		Changed engine oil.	
273444	CTT	C22	6/11/2007	1331		Changed engine oil. Greased hard bar.	
273445	CTT	C22	7/17/2007	1575		Changed engine oil. Changed transmission, steering and hydraulic filters.	
273446	CTT	C22	7/31/2007			Blew out rad, removed and cleaned stump pans.	
273436	CTT	C22	8/16/2007	1804		Changed engine oil, tightened track, and changed fuel filter.	
273435	CTT	C22	8/23/2007	1870		Blew out rads.	
273447	CTT	C22	9/19/2007	2046		Changed engine oil, transmission filter, hydraulic filter, and steering filter.	
273448	CTT	C22	10/3/2007	2144		Transmission solonoid #4 and speed sensor 1 changed by Kramers.	
273449	CTT	C22	10/19/2007	2255		Changed engine oil.	
273451	CTT	C22	10/19/2007			Replaced fuel priming pump switch under warranty. Kramers.	
273432	CTT	C22	11/19/2007	2478		Changed engine oil.	
273458	CTT	C22	11/30/2007	2555		Changed outer air filter.	
273438	CTT	C22	1/2/2008	2677		Changed engine oil.	
273459	CTT	C22	1/2/2008	2677		Changed engine oil.	
273439	CTT	C22	1/8/2008	2720		Changed corner bits and cutting edge.	
273437	CTT	C22	1/16/2008	2781		Changed engine oil (10W30), transmission oil, and engine air filter.	
273441	CTT	C22	1/19/2008	2781		Installed Espanre heater. Installed timer. Filled with antifreeze. Installed fuel line & pump. Fixed Levers on ripper.	
273440	CTT	C22	1/21/2008	2779		Changed transmission oil & filter. Installed heater on CAT. Repaired louvers on rippers.	
273450	CTT	C22	3/13/2008	3174		Changed outer engine air filter.	
273512	CTT	C22	5/2/2008		Kramer CAT Ltd		A/C repair - CAT.
273480	CTT	C22	5/7/2008		Kramer CAT Ltd		New switch, actuator, valve assembly, heater coil, and EVA coil for air conditioner.
273452	CTT	C22	5/8/2008	3385		Changed engine oil (15W40), cab air filter, and primary air filter.	
273455	CTT	C22	5/23/2008	3483		Changed fuel filter.	
273479	CTT	C22	5/29/2008		Kramer CAT Ltd		4 SOS CR for Plus3
273456	CTT	C22	6/4/2008	3593		Changed the engine oil.	
273457	CTT	C22	6/23/2008	3653		Changed right hand track chain, segments on both sides. Removed old pads & put on new chain. Kramer changed air conditioning hose & evaporator, and reprogrammed engine fan speed.	
273453	CTT	C22	6/25/2008	3668		Changed outer fuel filter.	
273454	CTT	C22	6/27/2008	3686		Changed transmission filters.	
273508	CTT	C22	10/17/2008		Kramer CAT Ltd		2 tinted windows.
273509	CTT	C22	1/14/2009		Kramer CAT Ltd		4 seal assemblies.
273510	CTT	C22	1/20/2009		Kramer CAT Ltd		Hose Assembly.

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273499	CTT	C22	2/6/2009		Kramer CAT Ltd		Wiper arm and blade. Krammer
273500	CTT	C22	2/28/2009		Kramer CAT Ltd		Hose assembly. Krammer
273493	CTT	C22	3/18/2009		Kramer CAT Ltd		Undercarriage. 4 idlers, 16 rollers, 10 segments, 50 bolts/nuts/washers, 2 link assemblies.
273501	CTT	C22	3/30/2009		Kramer CAT Ltd		2 seal assemblies for hardbar.
273423	CTT	C22	4/20/2009	5048		Changed engine, transmission, and final drive oils & filters. Changed steering filter. Replaced gaskets under stump pans. Changed all cab filters and engine air filters. Repaired block heater cord. Changed all engine pan gaskets.	
273427	CTT	C22	4/20/2009	5048		Changed transmission, engine, and final drive oils & filters. Changed steering filter.	
273482	CTT	C22	4/20/2009		Kramer CAT Ltd		3 gaskets and 2 o-rings for oil pan.
273484	CTT	C22	4/20/2009		Kramer CAT Ltd		7 pins for track roller bushings.
273416	CTT	C22	4/21/2009	5048		Changed transmission drain plug and oil. Removed engine oil pans and replaced gaskets. Repaired block heater cord.	
273492	CTT	C22	4/21/2009		Kramer CAT Ltd		Replaced seals & gaskets under oil pan.
273417	CTT	C22	4/22/2009	5050		Fixed back up alarm.	
273481	CTT	C22	4/23/2009		Kramer CAT Ltd		2 block sliders for seat.
273483	CTT	C22	4/23/2009		Kramer CAT Ltd		Block slider for seat.
273485	CTT	C22	4/23/2009		Kramer CAT Ltd		3 cartridge pins, and 4 washers for hardbar.
273486	CTT	C22	4/23/2009		Kramer CAT Ltd		Bearing, 4 seals, and 4 o-rings for hardbar.
273488	CTT	C22	4/23/2009		Kramer CAT Ltd		Bearing for hard bar.
273418	CTT	C22	4/24/2009	5050		Replaced both hardbar bearings, 2 hard bar seals, 2 cartridge pins, and a retainer ring.	
273490	CTT	C22	4/24/2009		Kramer CAT Ltd		Hard bar bearing.
273491	CTT	C22	4/24/2009		Kramer CAT Ltd		Hard bar bearing, 4 seals, and 5 o-rings.
273419	CTT	C22	4/27/2009	5050		Replaced boggy bushings on left side. Replaced hard bar bearing & seals on right side.	
273487	CTT	C22	4/27/2009		Kramer CAT Ltd		Returned cartridge pins.
273494	CTT	C22	4/27/2009		South Country Equipment		Hydraulic filters?
273420	CTT	C22	4/28/2009	5050		Replaced valve for antifreeze drain on rad.	
273489	CTT	C22	4/28/2009		Kramer CAT Ltd		Valve for anti-freeze drain.

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273505	CTT	C22	4/28/2009		SMS Equipment		Weld 4 track idlers.
273421	CTT	C22	4/29/2009	5050		Replaced segments on both sides.	
273422	CTT	C22	4/30/2009	5050		Put on 2 new rails.	
273496	CTT	C22	5/1/2009		Kramer CAT Ltd	53	Fuel primming switch.
273424	CTT	C22	5/8/2009	5049		Instal Idlers and tracks, install front stump pans, put 4 pads on.	
273495	CTT	C22	5/8/2009		Young's Equipment Inc	10	Nuts and bolts
273497	CTT	C22	5/27/2009		Kramer CAT Ltd	71	Seals and O Rings, Mainfold(Should be under warranty)
273502	CTT	C22	5/27/2009		SMS Equipment		Disassemble shaft/seal assemblies and resealed idler assemblies.
273504	CTT	C22	5/27/2009		SMS Equipment		Disassembled shaft/seal assemblies. Resealed idler assemblies.
273425	CTT	C22	5/28/2009	5162		Change valve, replace hydlic cap, blew rad out	
273511	CTT	C22	6/5/2009		Kramer CAT Ltd	273	Troubleshooted hydraulic system.
273426	CTT	C22	6/9/2009	5233		Oil change 15/40 Check fluids, change filters and grease hand bar	
273503	CTT	C22	6/17/2009		Kramer CAT Ltd	71	Seals, manifold, connectors, gaskets.
273428	CTT	C22	7/9/2009	5435		Changed engine oil (15W40).	
273429	CTT	C22	7/23/2009	5480		Change air filter.	
273430	CTT	C22	8/14/2009			Fix fuel line leak	
273431	CTT	C22	8/18/2009	5635		Changed oil.	
273434	CTT	C22	9/23/2009	5825		Changed engine oil (15W40).	
273506	CTT	C22	9/23/2009		Kramer CAT Ltd	491	Sensor, seal, and bulb.
273507	CTT	C22	9/25/2009		Kramer CAT Ltd		SOS credit for PLUS3.
273513	CTT	C22	10/20/2009	5481	Kramer CAT Ltd	497	Service call to repair transmission. Replaced the forward/reverse control switch.
273460	CTT	C22	10/30/2009	5913		Changed oil in transmission and final drives. Changed engine oil (10W30). Changed bother fuel filters.	
273498	CTT	C22	11/23/2009		Southern Industrial & Truck Ltd	608	24V main harness.
273466	CTT	C22	12/14/2009	6115		Changed enginen oil (10W30), and wiring harness for espare heater.	
273517	CTT	C22	12/15/2009		Kramer CAT Ltd	613	Seals, flange, bearing.
273518	CTT	C22	12/15/2009		Kramer CAT Ltd	613	2 flanges.
273467	CTT	C22	12/16/2009	6116		Changed idler on belt.	
273464	CTT	C22	1/14/2010	6181		Changed leaking hose and installed dor shock.	
273514	CTT	C22	1/15/2010		Kramer CAT Ltd	618	Hose assembly.

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273522	CTT	C22	2/1/2010		Kramer CAT Ltd	1128	Wiper
273465	CTT	C22	2/27/2010	6400		Changed engine oil (10W30).	
273470	CTT	C22	3/8/2010	6426		Changed blower motor for cab.	
273523	CTT	C22	3/10/2010		Kramer CAT Ltd	624	Fan assembly.
273471	CTT	C22	3/17/2010			Changed transmission oil and filter, engine oil, final drive oil,	
273472	CTT	C22	3/17/2010	6478		Changed transmission oil & filter, engine oil (15W40), final drives oil, and hydraulic filter.	
273524	CTT	C22	4/12/2010		Southern Industrial & Truck Ltd		Main wiring harness for espar heater.
273468	CTT	C22	5/26/2010			Changed A/C hoses.	
273525	CTT	C22	5/27/2010		Kramer CAT Ltd	1232	Feul sender.
273526	CTT	C22	5/27/2010		Kramer CAT Ltd	757	Hose assembly.
273469	CTT	C22	6/7/2010	6654		Change Hyd. Hose	
273461	CTT	C22	6/17/2010	6683		Changed engine oil and cab air filter.	
273433	CTT	C22	7/15/2010	6850		Changed engine oil (15W40).	
273519	CTT	C22	7/17/2010		Kramer CAT Ltd	757	Air conditioning hose returned.
273527	CTT	C22	9/2/2010		Kramer CAT Ltd	1242	Hose.
273462	CTT	C22	9/3/2010	7023		Changed hose on filter housing. Changed engine oil (15W40).	
273463	CTT	C22	10/7/2010	7232		Changed engine oil.	
273473	CTT	C22	11/26/2010	7500		Changed engine oil (10W30).	
273528	CTT	C22	12/8/2010		Kramer CAT Ltd	1247	Tube assembly.
273529	CTT	C22	12/8/2010		Kramer CAT Ltd	1247	Seals and gaskets.
273474	CTT	C22	12/9/2010	7589		Changed engine oil (10W30), transmission oil (10W), final drive oil, and turbo line presser. Replaced 2 transmission filters, 2 hydraulic filters, pilot ckt filter, and both fuel filters.	
273475	CTT	C22	1/28/2011	7835		Changed engine oil (10W30).	
273476	CTT	C22	3/10/2011	8054		Changed engine oil (10W30).	
273477	CTT	C22	5/6/2011	8100		Take canvas off doors, take winter front off wash CAT, Blow rad, clean tracks	
273515	CTT	C22	5/10/2011		Kramer CAT Ltd	1661	Seal, seal o-ring, cap, nipples, plugs, valve-check, valve gp-pre, valve gp, nipple-filter, valve GP RLF, valve GP-CHK, screen, plug-orifice, manifold GP
273521	CTT	C22	5/10/2011		Kramer CAT Ltd	1662	Seal, seal o-ring
273478	CTT	C22	5/13/2011	8102		Changed oil, final drive oil, and turbo line	
273520	CTT	C22	5/14/2011		Kramer CAT Ltd	1666	Gasket, tube as-supp
273516	CTT	C22	5/19/2011		Kramer CAT Ltd	1802	turbo line replacement
273530	CTT	C22	6/29/2011	8123		Changed air conditioner	R-134A

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273531	CTT	C22	7/4/2011	8145			
273536	CTT	C22	7/5/2011		Kramer CAT Ltd	A/C repair - evaporator cracked	
273532	CTT	C22	7/7/2011	8170		Changed AC evaporator, changed AC belt, charged AC	2166-8732, 1 Belt alternator AC
273533	CTT	C22	7/8/2011	8181		Replaced turbo pressure line	Turbo oil line
273537	CTT	C22	7/9/2011		Kramer CAT Ltd	Change turbo supply line	
273534	CTT	C22	7/19/2011	8204		Changed turbo line and charged AC	
273539	CTT	C22	7/20/2011		Kramer CAT Ltd	Injector line clamps	
273538	CTT	C22	7/21/2011		Kramer CAT Ltd	a/c hose for replacement	
273535	CTT	C22	7/25/2011	8250			
273542	CTT	C22	7/27/2011	8267			
273540	CTT	C22	7/29/2011			Changed A/C hose.	
273541	CTT	C22	8/2/2011	8267			
273543	CTT	C22	8/2/2011	8267		Charged A/C.	
273544	CTT	C22	8/4/2011	8267			
273545	CTT	C22	8/9/2011	8283			
273547	CTT	C22	8/16/2011	8327		Changed engine oil (15W40).	
273546	CTT	C22	8/17/2011	8327			
273548	CTT	C22	9/6/2011	8420			
273549	CTT	C22	9/11/2011	8484			
273550	CTT	C22	9/19/2011	8551			
273551	CTT	C22	9/26/2011	8595		Changed engine oil (15W40).	
273552	CTT	C22	9/26/2011	8591			
273553	CTT	C22	10/4/2011	8684			
273554	CTT	C22	10/12/2011	8710		Repaired leaking espair heater hose.	
273555	CTT	C22	10/19/2011			Installed separator hose.	
273556	CTT	C22	10/19/2011	8745			
273557	CTT	C22	11/22/2011	8794		Changed engine oil (10W30).	
273558	CTT	C22	12/9/2011			Replaced side window.	
273559	CTT	C22	12/12/2011	8824		Changed oil in final drives, changed transmission oil (synthetic), both transmission filters, 2 hydraulic filters, 2 fuel filters, engine air filter, and replaced sprocket.	
273560	CTT	C22	12/19/2011	8842			
273562	CTT	C22	12/20/2011		Southern Industrial & Truck Ltd	Service - repairs to cat preheater	
273561	CTT	C22	1/3/2012	8868			
273563	CTT	C22	1/10/2012	8908			
273564	CTT	C22	1/13/2012			6 new rad tank gaskets.	
273573	CTT	C22	1/13/2012		Kramer CAT Ltd	Parts - Rad gaskets	
273565	CTT	C22	1/16/2012			Changed fuel filters.	
273578	CTT	C22	1/16/2012		South Country Equipment	Repaired fuel line	
273566	CTT	C22	1/17/2012			Filled with water, and flushed rads and engine.	
273567	CTT	C22	1/18/2012	8923		Replaced antifreeze hose.	
273575	CTT	C22	1/18/2012		Kramer CAT Ltd	Parts - replacement oil hose	
273568	CTT	C22	1/26/2012			Replaced ripper shank guard.	

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273571	CTT	C22	1/26/2012	8944		Pressure-tested radiator to locate leaks. Replaced O-rings on engine oil coolers, thermostats and replaced the water pump.	*1 assy- water pump part# 161-5719, *2ea thermostats part# 248-5513, *1ea O-ring 1223772, *3ea O-ring 1090077, *1ea O-ring 9M-3786, *1ea Seal 125-0434, *2ea o-ring 171-4358, *2ea seal 3S9643, *80L Anti-freeze coolant
273576	CTT	C22	1/26/2012	8922	Kramer CAT Ltd	Service - install injector sleeves	
273577	CTT	C22	1/26/2012		Kramer CAT Ltd	Parts - replaced water pump & thermostat	
273579	CTT	C22	1/26/2012		South Country Equipment	Parts - replaced coolant line on cooler	
273569	CTT	C22	1/27/2012	8944		Installed water pump, and replaced oil cooler O-rings.	
273570	CTT	C22	1/27/2012	8944		Installed thermostat & miscellaneous, replaced rad seal.	
273572	CTT	C22	1/30/2012	8944		Bled ESPAR heater and ran for half hour.-ok; * Checked oil/coolant levels-ok	none
273591	CTT	C22	2/2/2012		South Country Equipment	Parts - breather hose	
273574	CTT	C22	2/9/2012	8949		Traced coolant leak- removed sump pans for inspection. Trouble shooting in-progress.	
273582	CTT	C22	2/10/2012		Kramer CAT Ltd	Parts - Rad tank seal for rad repair	
273580	CTT	C22	2/16/2012	8949		Pulled out Radiator cores and hydraulic oil cooler for leak test, cleaning and regasketting.	
273581	CTT	C22	2/17/2012	8945		Dismantled radiator for cleaning, inspection and testing.	1 can iron gard spray paint
273594	CTT	C22	2/21/2012		Kramer CAT Ltd	Parts - Top & bottom rad hoses	
273583	CTT	C22	2/22/2012	8949		continuation of Radiator repair- installed bottom tank and radiator cores. Replaced upper and lower radiator hoses.	1ea hose,radiator 217-7388; 1ea hose, radiator 2395660
273584	CTT	C22	2/23/2012	8949		Installed radiator cores, hydraulic coolers and air-air cooler.	6ea seals, 6l 2431; *6ea seals,6l 2435
273585	CTT	C22	2/24/2012	8952		Flushed cooling system with RadFlush chemical (KleenFloRad flush) mixed with water to get rid of contaminants; Topped up hydraulic reservoir; Installed front Radiator cover; bolted back stump pans.	12 bottles (450mL ea) KleenFlo 10minutes Rad Flush; *32L hydraulic oil
273586	CTT	C22	2/27/2012	8952		Pulled out Transmission cooler and engine oil cooler. Flushed engine with RadFlush mix.	8 bottles (450mL ea) Rad Flush flushing chemicals
273587	CTT	C22	2/28/2012	8952		job continuation: scraped off old gasket and visually inspected; Fabricated adapter plates for pneumatic leak-testing of coolers.	2ea Seal 113-5304; 2ea Seal 2N-3350; Seal 8C-5230; 2ea Seal 5P-8068; 2ea Gasket 2S-0795; 1ea Core-cooler OR-5549; 1ea Core-cooler OR-9056; 3ea seal 109-0077; 1ea Seal 125-0434; 1ea Seal 1P-3705

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273588	CTT	C22	2/29/2012	8953		Replaced decelerator spring; Installed transmission oil cooler.	1ea decelerator
273595	CTT	C22	2/29/2012		Kramer CAT Ltd	Parts - Brake pedal spring	
273596	CTT	C22	2/29/2012		Kramer CAT Ltd	Parts - New transmission oil cooler & new engine oil cooler, rad seals	
273589	CTT	C22	3/1/2012	8953		Installed engine oil cooler; commenced heater hoses removal.	
273590	CTT	C22	3/2/2012	8953		Replaced heater hose connected to heater core; Flushed cooling system with tap water; Installed heater valve.	1ea cap,radiator 0311119; *440" heater hose 5/5"dia x 440" (20ft);
273593	CTT	C22	3/5/2012	8955		Bolted on stump pans; Flushed cooling system with water and filled up with anti-freeze coolant; Charged A/C; Removed winter-grill covers; Repaired ripper pin grease pathway by drilling through and re-installed grill. Test-ran around shop	4cans refrigerant 134a
273592	CTT	C22	3/6/2012	8955		Replaced 2 radiator core seals on the RHS of the radiator; Test-drove equipment around till operating temperature.	2ea seals,radiator core; * 30L anti-freeze coolant.
273597	CTT	C22	3/8/2012	8955		Re-installed radiator cores with new seals and flushed with water;* Removed engine valve covers and removed fuel unit injectors.	6ea seals, unit injector body,6I 2431.
273601	CTT	C22	3/8/2012		Kramer CAT Ltd	Parts - hood mounting hardware	
273603	CTT	C22	3/8/2012		Kramer CAT Ltd	Parts - Rad top & bottom seals	
273604	CTT	C22	3/8/2012		Kramer CAT Ltd	Parts - rad seal lubricant	
273598	CTT	C22	3/9/2012	8955		Re-installed old fuel injectors with new rubber seals; Pressure-tested for seal integrity with block heater ON @ 150degF and pressurized cooling system. Passed the test.Ok	6ea seal2303775; 6ea seal,2303728; 6ea seal,9X7317
273602	CTT	C22	3/9/2012		Kramer CAT Ltd	Parts - injector seals	
273599	CTT	C22	3/12/2012	8955		Re-assembled valve/injector actuators; Installed valve covers, muffler and intake manifold headers; Installed pressure gauge for leak testing.	none
273600	CTT	C22	3/12/2012	8960		Test-ran around yard till operating temperature and checked radiator seal integrity- Passed test-Ok	
273605	CTT	C22	3/14/2012	8963		Installed hood and covers, stump pans and washed unit; Drained and refilled cooling system; Changed engine oil/ filter.	1ea filter,engine oil LF691A; 80L coolant anti-freeze; 42L engine oil SAE15w40
273606	CTT	C22	3/15/2012	8963		Torch-Cut track pads cork; Brushed bolts; removed track pads and reinstalled same.	
273607	CTT	C22	3/16/2012	8963		Brushed track bolts threads; Removed front idlers and bottom rollers; Flame-cut track pad corks.	

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273614	CTT	C22	3/19/2012	8964		Cleaned bolts/caps; Removed RHS track frame, flipped over track frame and repaired bogey bearings/pins.	none
273608	CTT	C22	3/20/2012	8963		Welded segments joints; Flame-cut hard bar shield rings; Pushed out bogey bearings; Installed rollers; Replaced hard bar seals and welded on to secure placement-installed hard bar.	10ea segments complete with bolts and nuts/flat washers; 8ea rollers; 4ea seals, hardbar.
273615	CTT	C22	3/20/2012	8964		Flame-cut old shield rings on hard bar pin.	
273612	CTT	C22	3/21/2012	8964		Pressed out bogey bearing (1ea); Installed LHS front idler wheel.	1ea idler wheel
273610	CTT	C22	3/22/2012		Kramer CAT Ltd	Parts - undercarriage rebuild parts	
273617	CTT	C22	3/22/2012	8964		Installed bogey bearings, idler wheels, rollers and repaired/replaced grease nipples, chased threads.	grease zerk fittings.
273618	CTT	C22	3/23/2012	8964		Removed idler wheel from frame; Replaced bogey bearings with new parts; Chased threads on puller thread bores on bogey.	set of bogey bearings (unreported)
273621	CTT	C22	3/23/2012		Kramer CAT Ltd	Parts - undercarriage pins	
273609	CTT	C22	3/26/2012	8963		Bolted back track frame, 2 idler wheels, replaced 2 roller bearings, installed 2 rollers and polished track chains in contact with track pads.	2ea Idler wheels; 2ea bearings; 2ea rollers
273616	CTT	C22	3/26/2012		Industrial Parts & Equipment Ltd	Parts - pins undercarriage repair	
273619	CTT	C22	3/26/2012	8964		Flame-cut Roller bushings.	none
273620	CTT	C22	3/27/2012	8964		Installed rollers/ track chains; Cleaned/buffed track chain pad contacts,bolted to chain and torqued bolts to spec.	new Track chains/buffing wheels.
273611	CTT	C22	3/28/2012	8964		Installed track chain and track pads; Removed LHS- door glass; Lubed hinges posts; Inspected all fluid levels, topped as necessary.	1 new track chain (for this CTT) 16ea Bolts, track pad 20ea nuts for track pad bolts;
273613	CTT	C22	3/28/2012		Kramer CAT Ltd	Parts - roller pins	
273622	CTT	C22	4/5/2012	8964		Re-installed door and reconnected wiring.	none
273623	CTT	C22	5/21/2012		Kramer CAT Ltd	Parts returned - plate from original invoice PI000545638	
273625	CTT	C22	8/29/2012	9038		Cleaned cab of decomposed mice and disinfected; Air-blown radiator cooling fins.	mice disinfectants and chlorox.
273626	CTT	C22	9/19/2012	9176		Serviced Equip't: Extracted SOS fluid samplings from engine crankcase; x'mission& final drives; changed engine oil/filter; Inspected Air Inlet filters-ok; Checked/topped up all fluid compartments.	45L oil,engine SAE 15w40; 1ea filter,engine oil LF691A.

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273628	CTT	C22	10/15/2012	9368		Serviced Equip't: Extracted SOS fluid samples from 4 compartments; Changed engine oil/filter; Checked/topped up all fluid compartments.	1ea filter,engine oil LF 691A; 42L oil,engine SAE 15w40; 4ea canister,SOS fluid sampling
273630	CTT	C22	10/30/2012			Extracted broken bolt on ripper pivot & replaced with replacement bolt.	1ea bolt
273633	CTT	C22	11/19/2012	9574		Serviced Equip't: Extracted SOS fluid samples from 4 compartments; Changed engine oil/filter; Checked/topped up all fluid levels.	1ea filter,engine oil LF691A; 42L oil,engine SAE 10w90;
273637	CTT	C22	1/18/2013	9797		Serviced Equip't: Extracted SOS fluid samplings; Changed engine oil/filter; Checked/topped up all fluid compartments.	1ea filter,engine oilLF691A; 42L oil,engine SAE10w30;
273638	CTT	C22	1/24/2013	9827		Replaced exhaust muffler pipe clamp;	1ea clamp,muffler
273641	CTT	C22	2/28/2013	9948		Replaced worn blade cutting edges, corner bits & fasteners.	2ea cutting edge,blade; 2ea bit,corner; 16ea plough bolts/nuts/flat washer
273644	CTT	C22	4/18/2013		Kramer CAT Ltd	Parts - water pump	
273643	CTT	C22	4/19/2013	9992	Kramer CAT Ltd	Service - Checked cooling system	
273645	CTT	C22	4/29/2013			Cut gousser bar and tack weld it on CAT	
273647	CTT	C22	4/29/2013			Cut grouser bars and tack weld them on CAT	
273649	CTT	C22	4/30/2013			Weld grusers on CAT.	
273646	CTT	C22	5/1/2013			Weld grousers on CAT	
273648	CTT	C22	5/2/2013	9994		Weld on grouser bars	
273650	CTT	C22	5/3/2013	9994		Finish to weld grouser bars.	
273654	CTT	C22	5/3/2013		Kramer CAT Ltd	Parts - grouser bar	
273651	CTT	C22	5/6/2013			Removed side panels; Removed stump pans; Blow out rad.;Changed antifreeze flow switch;	134-6054 switch.
273652	CTT	C22	5/7/2013	9996		Changed heater valve on engine; Changed antifreeze, engine oil and filter; Changed pilot filter.	45L of Antifreeze; 43L of 15W40 oil; One LF691A filter; One 126-1813 Pilot filter.
273655	CTT	C22	5/7/2013		Kramer CAT Ltd	Parts - antifreeze flow switch	
273653	CTT	C22	5/8/2013	9996		Clean screens on transmition; Changed transm. Oil and filter; Drained final drive and filled with Esso Trans 30; Install covers and door shocks.	343-4465 Filter-2; 102-288 Filter-1; 155L of CAT T04M oil; 30L of Esso Trans 30; 0909555 clip-4; 317-3836 dumper-2.
273658	CTT	C22	7/22/2013	10197		Changed engine oil/filter; Changed hose on transmission.	42L of 15W40 oil; LF691A filter; 1 new hose;
273659	CTT	C22	7/23/2013		Kramer CAT Ltd	Parts - transmission hose replacement	
273661	CTT	C22	8/6/2013	10279		Blew rad's out on unit.	
273664	CTT	C22	9/3/2013	10396		Changed engine oil/filter; Blew rads out; Took sos samples;	42L 15W40 oil; LF691A filter;
273665	CTT	C22	9/4/2013			Blew Rad out; Changed air cleaner;	6I2506 filter; 6I2505 filter;
273666	CTT	C22	9/5/2013	10413		Blew rad out;	
273670	CTT	C22	9/27/2013	10539	Kramer CAT Ltd	service invoice - service call to machine. Repaired wire harness to injectors #1 & #2. repaired tested ok	

ID	Type	Unit	TrackingDate	RecordedHrs	Supplier	Description	Material
273671	CTT	C22	10/2/2013	10605		Changed engine oil/filter; Took sos samples; Fix coolant leak on heater hose; Blew rad. Out;	42L of 15W40 oil; LF691Afilter;
273672	CTT	C22	10/10/2013			Blew rad out;	
273674	CTT	C22	10/29/2013	10807		Changed engine oil/filter; Took sos samples;	42L -10W40 oil; 1R1808 filter;
273676	CTT	C22	11/27/2013			Weld corks on tracks;	
273677	CTT	C22	12/12/2013			Replaced broken fuel lines;	2 fuel lines and o-rings;
273678	CTT	C22	12/13/2013		Kramer CAT Ltd	parts invoice - fuel lines	
273680	CTT	C22	1/14/2014	11030		Changed engine oil/filter; Took sos samples;	44L- 10W30 oil; LF691A filter;
273681	CTT	C22	1/28/2014	11094		Check seat compressor out;	
273703	CTT	C22	1/29/2014		Kramer CAT Ltd	parts invoice - replaced sear air compressor & valve	
273682	CTT	C22	1/31/2014	11118		Changed compressor in seat;	1 Air compressor-237-3970
273684	CTT	C22	3/11/2014	11289		Changed engine oil/filter;	44L- 15W40 oil; LF691A filter;
273727	CTT	C22	3/21/2014		Kramer CAT Ltd	service invoice - replace diff steering sensor	
273685	CTT	C22	3/31/2014	11299		Took floor boards and sump pans off; Install two missing boogie pin covers;	
273689	CTT	C22	4/2/2014	11300		Changed Final Drive oil; Changed transmission oil and filter; Changed horse cock bushings; Removed pump drive couplers; Check for bad hoses on transmission;	35L- Trans 30 oil; 2 ea.- 160-1660 bearings; 2 ea.- 3434465 filters; 1 ea- !R-0777 filter; 1ea-102-2828 filter; 1ea- 176-1813 filter; 160L- TO4m oil;
273686	CTT	C22	4/3/2014			Weld grouser bar on.	
273687	CTT	C22	4/3/2014			Started to build up another horse cock	
273688	CTT	C22	4/3/2014	11300		Removed oil pans and exhaus; Replaced transmission hose (to torque covertor): Removed ripper hose and took to Kramer to rebuild;	1 ea.- 162034 hose; 1 ea.- 162035 hose; 1- 162-0386 hose; 1 ea.- 170-574 hose; 1 ea.- 4m0189 seal; 209-1459 hose; 225-3186 hose;
273708	CTT	C22	4/3/2014		Kramer CAT Ltd	parts invoice - repaired exhaust, removed broken studs, changed trans lines, replaced trans pump drive	
273690	CTT	C22	4/4/2014	1300		Changed engine oil/filter; Replaced oil pan gasket; Installed exhaus mnifold and ripper hoses; Removed air shutdown;	44L- 15W40 oil; LF691A oil filter;
273691	CTT	C22	4/4/2014			Finished working on horse cock;	
273709	CTT	C22	4/5/2014		Kramer CAT Ltd	parts invoice - replaced exhaust gaskets on trubo to pertaining parts	
273710	CTT	C22	4/5/2014		Kramer CAT Ltd	parts invoice - 20mm bolts & washers	
273692	CTT	C22	4/7/2014	11300		Changed starter gaskets; Install lines on turbo; Cleaned air shad down; Topped up antifreeze and transmission oil; Checkout wiring harness.	1- starter gasket;
273693	CTT	C22	4/8/2014	11300		Removed wiring harness for engine; Made bracket for air shut down;	
273694	CTT	C22	4/8/2014				
273695	CTT	C22	4/8/2014	11300		Installed air shut down;	
273711	CTT	C22	4/9/2014		Kramer CAT Ltd	parts invoice - engine wiring harness	
273712	CTT	C22	4/9/2014		Kramer CAT Ltd	parts invoice - engine harness	

ID	Type	Unit	TrackingDate	RecordedHrs	Supplier	Description	Material
273696	CTT	C22	4/10/2014	11300		Replaced 2 engine wiring Harnesses (on injectors); Changed wiring Harness to engine sensors for water, oil pressure; AT pressure, steering valves and hydraulic fan controllers;	1 ea.- 239-5929 Harness assembly; 1ea- 204-7735 Harness assembly;
273697	CTT	C22	4/10/2014			Cut off bearings on dozer arms for repair;	
273698	CTT	C22	4/11/2014			Installed sump pans;	
273699	CTT	C22	4/11/2014			Started cutting corks off;	
273700	CTT	C22	4/11/2014			Cut corks;	
273707	CTT	C22	4/11/2014		South Country Equipment	parts invoice - end bolts & nuts for stump pans	
273704	CTT	C22	4/14/2014			Changed seals and bearings on dozers arms and tilt cylinder;	5 ea.- seals; 2ea.- bearings;
273701	CTT	C22	4/15/2014			Install tilt cylinder and blade arm; Install blade on CAT;	
273702	CTT	C22	4/15/2014	11301		Cut corks off;	
273713	CTT	C22	4/15/2014		Kramer CAT Ltd	parts invoice - harness assembly	
273717	CTT	C22	4/15/2014		Kramer CAT Ltd	parts invoice - dozer center pin bushings	
273705	CTT	C22	4/21/2014	14313		Take dozer off; Replaced bearings; Changed engine oil;	
273706	CTT	C22	4/23/2014			Take blade off CAT;	
273720	CTT	C22	5/12/2014		Chip 9 Machining	service invoice - reappaired pin	
273714	CTT	C22	5/26/2014	11310		Installed sump pans.	
273715	CTT	C22	5/27/2014	11310		Filled engine oil; Check air filters; Check A/C; Installed horse cock on deser;	
273716	CTT	C22	5/28/2014	11311		Finished making keeper for horse cock pin and welded on dozer; Installed ripper shanks and replaced 2 ripper pins; Greased all lube points;	2ea- ripper pins; 4L- hyd. Oil; 1-air filter;
273721	CTT	C22	6/11/2014	11379		Adjusted air shut down	
273722	CTT	C22	6/13/2014		Kramer CAT Ltd	service invoice - rebuild transmission & torque, final drives, steering clutches. NOTE: labour was prepaid. This invoice is for parts only	
273728	CTT	C22	6/13/2014		Kramer CAT Ltd	Pre-paid labourer - 342.1 hours from Kramers - rebuild trans & torque, final drives & steering clutches	
273729	CTT	C22	8/26/2014		Kramer CAT Ltd	service invoice - replace rad seals top & bottom, replace injector seals and injector #3. repair fuel guage & set valves	
273725	CTT	C22	8/27/2014	11495		Changed oil; Took sos samples;	44L- 15w40 oil; LF691A oil filter;
273734	CTT	C22	10/20/2014	11672		Changed engine oil/filter; Took sos oil samples; Check oil in final drives;	45L-10w30 oil; 1 oil filter;
273735	CTT	C22	10/20/2014				
273738	CTT	C22	11/24/2014			Weld corks	
273739	CTT	C22	11/24/2014			Weld corks; Built winter front;	
273741	CTT	C22	12/4/2014	11884		Changed engine oil; Took sos samples; Topped up LH Final drive;	44L-10w30 oil; LF691A filter; 5L-Trans 30;
273743	CTT	C22	12/18/2014	11943		Changed final drive oil(bad oil samples)	40L- Trans 10W oil
273745	CTT	C22	1/5/2015	11955		Went to location to fire up CAT	

ID	Type	Unit	TrackingDate	RecordedHrs	Supplier	Description	Material
273747	CTT	C22	1/12/2015	11980		Removed side panels to check out heating system. Got call to go to different Cat, so re-installed side panels	
273750	CTT	C22	1/29/2015	12035		Changed hose by filter housing;	1- hose
273751	CTT	C22	1/29/2015		South Country Equipment	parts invoice - filter housing hose	
273752	CTT	C22	2/6/2015	12066		Changed engine oil/filter; Take oil samples; Greased machine; Cleaned cab;	40L-10w30 oil; LF691A filter;
273753	CTT	C22	2/24/2015				
273756	CTT	C22	2/24/2015			Take off topsoil cutter, install three ripper shanks. Change ripper tips and install shank guard.	
273754	CTT	C22	2/26/2015			Cat had no head. Worked with mechanic to fix problem.	
273755	CTT	C22	2/26/2015	12114		Changed heater valve, blew out heater lines. Top up with antifreeze.	1 new heater valve, 10 L antifreeze
273770	CTT	C22	3/9/2015			Repaired Ripper shanks	
273777	CTT	C22	3/24/2015		Kramer CAT Ltd	parts invoice - paint & hardener	
273761	CTT	C22	3/26/2015			Fixed pin that holds front arms ; Washed CAT	
273762	CTT	C22	3/26/2015	12124		Removed stump pans; Check hard bar(almost 1"play) Inspected keeper for lift cylinder; Hyd. Fan leaks; Top RH Ripper cylinder leaks;	
273757	CTT	C22	3/27/2015			Prepared for painting	
273758	CTT	C22	3/27/2015	12124		Replaced fan drive motor with rebuilt one.	10R-4581 Fan Drive motor;
273768	CTT	C22	3/27/2015		South Country Equipment	parts invoice - line plugs needed to change hydraulic fan motor	
273771	CTT	C22	3/27/2015	12124		Washed CAT; Fill batteries with distilled water;; Cleaned cab;	
273778	CTT	C22	3/28/2015		Kramer CAT Ltd	parts invoice - rad fan	
273759	CTT	C22	3/30/2015	12124		Installed hydraulic lines and top up system	10L- hyd. Oil;
273760	CTT	C22	3/30/2015			Prepared CAT for paint job;	
273772	CTT	C22	3/30/2015			Repaired cracks on dozer;	
273765	CTT	C22	4/1/2015			Get ready for Paint job	
273773	CTT	C22	4/1/2015	12124		Pulled roll bar;	
273763	CTT	C22	4/2/2015			Get ready for Paint job;	
273764	CTT	C22	4/2/2015			Get ready for paint job;	
273766	CTT	C22	4/6/2015			Sand and paint parts for dozer	
273769	CTT	C22	4/6/2015			Painted cab black;	
273767	CTT	C22	4/7/2015			Prep. CAT for paint job; Mix paint and spray CAT	
273774	CTT	C22	4/8/2015			Finished paint CAT	
273775	CTT	C22	4/9/2015			Finish paint work on CAT	
273780	CTT	C22	4/13/2015	12125		Check for leaks; Topped up all fluids; Installed floor boards and stump pans;	8L-antifreeze; 6L- 15w40 oil; 1L-TO4M oil; 3L- 30W gear oil;
273779	CTT	C22	4/14/2015	12125		Replaced 2 roller boogie pins; Install ripper shank guards; Troubleshooting A/C timer;	2ea.- boogie pins; 2 ea.- ripper shank guards;
273781	CTT	C22	4/15/2015			Traubleshoot A/C timer, need new pressure switch	

ID	Type	Unit	TrackingDate	RecordedHrs	Supplier	Description	Material
273776	CTT	C22	4/16/2015	12125		Replaced A/C high pressure switch and charged A/C; Replaced washer check valve;	High pressure A/C switch;
273782	CTT	C22	4/16/2015			Reinstall window cover	
273783	CTT	C22	4/16/2015		Zastrow Glass	Replaced door glass	
273786	CTT	C22	4/16/2015		Kramer CAT Ltd	parts invoice - a/c high pressure switch. Windshield washer check valve	
273784	CTT	C22	5/5/2015			Troubleshooting a/c. Low on freon now.	
273785	CTT	C22	5/6/2015	12126		Recharged with 3 1/2 lb pure freon (not from reclaim tank). Works good.	3 1/2 lbs freon
273787	CTT	C22	5/15/2015	12147		Installed dowel in ripper	1 3/4 inch bot
273810	CTT	C22	6/12/2015		Kramer CAT Ltd	parts invoice - a/c parts	
273799	CTT	C22	6/18/2015	12266		Charged A/C. Changed engine oil, took SOS samples	LF961A filter, 44 L 15W40, 3.5 lbs R-134A
273803	CTT	C22	6/24/2015			Rad plugged. Big rock jammed in track frame. Tracks loose. Blew out rad, got rock out, tightened track	
273804	CTT	C22	6/24/2015	12304		Blew rad out, removed rock from track frame	
273811	CTT	C22	6/24/2015		Kramer CAT Ltd	parts invoice - air filter sensor for plugged filters	
273806	CTT	C22	7/3/2015	12316		Changed turbo pressure line. Ground off dowel on ripper pin	1 new turbo line and gaskets
291790	Parts Invoi ce	C22	7/7/2015	0	FINNING INTERNATIONAL INC	Turbo pressure line	
273808	CTT	C22	7/10/2015	12348		Brought unit to shop. Checked A/C pressures. Charged A/C, changed Air cleaner restriction sensor.	3.5 lbs R134A, air restricting sensor
273809	CTT	C22	7/13/2015			Test A/C. Push up gravel pile.	
273814	CTT	C22	7/17/2015			Charged a/c with recycled R134A. Installed a/c harness. Ran and tested.	a/c harness and update
273815	CTT	C22	7/24/2015	12358		Changed trans oil and filters. Checked screen and cleaned screen magnet. Change oil in finals.	100L trans oil, 40L 30W
273817	CTT	C22	7/31/2015	12367			
273818	CTT	C22	7/31/2015	12367			
273819	CTT	C22	8/12/2015				
273820	CTT	C22	8/12/2015			Removed floorboards, removed batteries to check A/C leak. Cleared out battery compartment and pulled cover for evaporator/heater core compartment. (A/C leak is at evaporator)	
291612	CTT	C22	8/13/2015	0		Take out seat and floor boards	
291633	CTT	C22	8/14/2015	0		Broken weld on blade. Heated up, bent back into place. Ground out and welded back together.	
291634	CTT	C22	8/14/2015	0		Replaced a/c evaporator. Replaced 2 cab filters. Clean battery post.	Cab filters: 209-8217 and 219-7944, evaporator 216-8732
291977	Parts Invoi ce	C22	8/14/2015	0	SOUTHERN INDUSTRIAL & TRUCK LTD	New batteries	

ID	Type	Unit	TrackingDate	RecordedHrs	Supplier	Description	Material
293024	Parts Invoi ce	C22	8/15/2015		FINNING INTERNATIONAL INC	A/C coil	
291710	CTT	C22	8/17/2015	12378		Replaced 4 batteries and recharge a/c. Replaced outer air filter. Top-up coolant, washer fluid, engine and transmission oil levels. Renew engine belt. Checked both final drives, axle oil, lights, horn and wipers. Adjust track tension and grease unit. Tig	
291781	CTT	C22	8/18/2015	12378		Flip cutting edges and replaced bolts. Clean cutting edges and blade. Removed engine l/s cover to lubricate emergency stop cable. Carry out inspection list.	
291852	CTT	C22	8/18/2015	12378		Replaced 2 corner blades. Replaced 7 bolts and 1 nut. Isntalled cable on positive aire shut off and adjust cable. Installed engine side cover.	
291898	CTT	C22	8/20/2015	0		Wait for cat to arrive at location	
291899	CTT	C22	8/20/2015	0		Clean up Cat bay	
291900	CTT	C22	8/20/2015	12378		Blew out rads, filled with fuel. Disabled air shut off (trips too easy). Enabled air shut off, made adjustements (needs new unit)	
292087	Service Invoi ce	C22	8/20/2015	0	ZASTROW GLASS	Installed cat door glass	
292123	CTT	C22	8/25/2015	0			
294955	Parts Invoi ce	C22	9/19/2015	0	FINNING INTERNATIONAL INC	Battery cable returned	
294658	CTT	C22	10/15/2015	0		Picked up C22 at 7-21-1-15 and brought back to Weyburn	
296756	CTT	C22	11/20/2015	0		Add concentrate antifreeze to Cat. Brought antifreeze up to -30 degrees	8L antifreeze
296865	CTT	C22	11/24/2015	0		Corked Cat	
297110	CTT	C22	11/27/2015	12486		Changed engine oil, took SOS samples	44L 10W30, 1R1808 filter
297277	CTT	C22	12/1/2015	0		Put Cat on stands for corking	
301184	CTT	C22	2/11/2016	12669		Changed steering pump hose	1 used steering hose, 20L hydraulic oil
302800	Parts Invoi ce	C22	2/12/2016	0	FINNING INTERNATIONAL INC	Steering hose & pump hose	
303277	CTT	C22	3/29/2016	0		cutting off corks	
303552	CTT	C22	4/6/2016	0		Picked up corKs, parked Cat out back	
304388	Parts Invoi ce	C22	4/11/2016	0	ZASTROW GLASS	Dozer door glass	
304121	CTT	C22	4/22/2016	12762		Changed oil, took SOS samples. Check air cleaner and cut corks off.	LF691A, 44L 15W40
307763	CTT	C22	7/15/2016	12762		Troubleshoot A/C	
307859	CTT	C22	7/18/2016	12763		Transmission oil change - tag and put in and started to go throught checksheet.	

ID	Type	Unit	TrackingDate	RecordedHrs	Supplier	Description	Material
307873	CTT	C22	7/19/2016	12763		Replaced transmission filters, fixed light, tightened tracks, greased hard bar, fixed air shutoff, replaced air filter, pulled seat. Removed evaporator, tapped thread and installed. Cleaned battery and installed seat. Greased unit.	Trans filters (343-4465) x 2 air filter F25135M 5 L antifreeze
307962	CTT	C22	7/20/2016	12763		Checked for leaks on evaporator. Charged A/C. Installed battery. Topped up w/w fluid	
309383	CTT	C22	8/17/2016	12846		Fix hydraulic leak	
309468	CTT	C22	8/18/2016	12346		Changed hydraulic hoses and transmission hose. Top up with oil	1 trans hose, 3 hydraulic hoses, 30L hydraulic oil
310643	Parts Invoi ce	C22	8/18/2016	0	FINNING INTERNATIONAL INC	Hydraulic hoses replaced	
309681	CTT	C22	8/23/2016	12854		Installed alternator, did not fix problem. Cab is not getting 24 volts	
309696	CTT	C22	8/23/2016	12854		Helped install alternator	
309750	CTT	C22	8/24/2016	12854		Fix ground wire under floor boards. Removed set and floor panels.	1 5/16 wire lug
310645	Parts Invoi ce	C22	8/24/2016	0	FINNING INTERNATIONAL INC	Replaced alternator	
310272	CTT	C22	9/2/2016	12894		Missing 2 grill bolts, one is broken. Blew out rads.	
311444	CTT	C22	9/27/2016	12982		Changed oil, took SOS samples	LF691H filter 44 L 15-40
312716	Parts Invoi ce	C22	10/17/2016	0	FINNING INTERNATIONAL INC	Alternator core return	
315352	Parts Invoi ce	C22	11/15/2016	0	ZASTROW GLASS	Dozer door glass	
313836	CTT	C22	11/16/2016	0		Hauled C25 to site where broke down C22 was then hauled C22 to Weyburn	
313910	CTT	C22	11/17/2016	0		cleaned around rear valve body, prep to replace block, replaced kh door glass	door glass
314121	CTT	C22	11/18/2016	13084		Removed worn out segments	
315727	Parts Invoi ce	C22	11/19/2016	0	FINNING INTERNATIONAL INC	Maini hydraulic manifold behind cab	
314144	CTT	C22	11/21/2016	0		Prep work for replacing sprocket segments	
314173	CTT	C22	11/22/2016	13084		Removed and replaced both sprocket segments. Torque and turn segment. Replaced bolts, washers and nuts. Adjust both track tension	
314224	CTT	C22	11/23/2016	0		Weld segments	
314280	CTT	C22	11/24/2016	0		Weld segments	
315730	Parts Invoi ce	C22	11/24/2016		FINNING INTERNATIONAL INC	Seals, o-rings for replacing hydraulic manifold	

ID	Type	Unit	TrackingDate	RecordedHrs	Supplier	Description	Material
314386	CTT	C22	11/25/2016	13084		Replaced control valve block. Removed control valve, replaced seal kit and installed. Topped up hydraulic oil and replaced hydraulic filter. Drop stump pans and drained antifreeze.	hydraulic filter 126-1813, 6L hyd oil, seal kit #855633/855021A
314440	CTT	C22	11/28/2016	13084		Removed broken grill bolt and tapped. Had nut welded on for other grill bolts. Buttoned up grill. Replaced coolant drain valve and filled antifreeze. Checked/filled fluids. Tested and adjusted hyd pilot pressure (was 500 psi, set to 475 psi). Fixed rear panel and installed. Dropped stump pans and cleaned out dirt. Warmed up and checked for leaks. No major leaks, will double check.	drain valve and fitting, 80L antifreeze, 6L 15W40, 3L hyd oil
315198	Parts Invoi ce	C22	11/28/2016	0	SOUTHERN INDUSTRIAL & TRUCK LTD	Coolant drain	
314490	CTT	C22	11/29/2016	13084		Checked for leaks. Installed stump pans. Checked engine, pivot shaft and both final drive oil levels. Checked horn, lights and belts. Cleaned battery and cab filters. Free up positive air shut off cabe and adjust. Greased. Replaced outer air filter. Topped up w/w fluid.	w/w fluid
315140	CTT	C22	12/13/2016	13179		Changed engine oil, took SOS sample	LF691A, 44L 10W30
315461	CTT	C22	12/16/2016	0		weld cork	
316360	CTT	C22	1/6/2017	13250		Check out oil leak on Cat oil pan. Oil gallery plugs leaking. Top up engine oil. Changed track pad bolts. Check out alternator.	3L 10W30, track bolt and nut
316361	CTT	C22	1/8/2017	13269		Change alternator. Pick up alternator from Fanning	Alternator from Fanning
316384	CTT	C22	1/9/2017	0		genset went down, had to get it going and get the dozer going	
318781	Parts Invoi ce	C22	1/10/2017	0	FINNING INTERNATIONAL INC	Alternator	
317047	CTT	C22	1/19/2017	0		Work on D8 ripper	
317083	CTT	C22	1/19/2017	0		Fixed dowel in ripper	
317847	CTT	C22	2/3/2017	13423		change engine oil took sos samples, change final drive oil, change trans filters, checked trans screens	lf691H filter, 44 L 10-30 32 L trans 30 160 L to 4m oil 465-6502 filter 1328876 filters
318506	CTT	C22	2/14/2017	13481		Checked for leaks. Engine oil leak (pan gasket?). Small hose from front of trans filter housing. Rubbed, wasn't leaking at time but shows evidence of small leak. Steering motor leaking from mounting surface (small leak)	
318507	CTT	C22	2/14/2017	0		Worked on Cat with mechanic	
318575	CTT	C22	2/15/2017	13480		Installed carrier rollers. Removed broken idler bolts. Tighten up track pads.	

ID	Type	Unit	TrackingDate	RecordedHrs	Supplier	Description	Material
321298	Parts Invoi ce	C22	3/20/2017	0	REDHEAD EQUIPMENT LTD	Undercarriage	
321700	Parts Invoi ce	C22	3/24/2017		FINNING INTERNATIONAL INC	Undercarriage	
321704	Parts Invoi ce	C22	3/25/2017	0	FINNING INTERNATIONAL INC	Plugs, gaskets & o-rings to do oil pan	
320913	CTT	C22	3/31/2017	0		WASH MUD OFF TRACKS	
320925	CTT	C22	3/31/2017	0		DROP STUMP PANS IN YARD	
320967	CTT	C22	4/3/2017	0		wash & clean interior parts	
320991	CTT	C22	4/3/2017	0		finish rewashing under carriage	
320994	CTT	C22	4/3/2017	13541		shovel pads off, cleaned tracks, take cab apart , pull blade off , put on stands, pulled pads on rh side	
321021	CTT	C22	4/4/2017	13541		put inside of cab back together, remove pads and rails, remove rollers and idlers, clean caps and bolts replace broken missing pins in caps, removed segments pulled rh carrier roller & clean parts, checked boogies 12 worn started to check outside hard bar	
321092	CTT	C22	4/5/2017	13541		removed left track frame, removed hard bar, cleaned parts, removed plugs, bolt holes on truck frame, chased treads in bolt holes	
321141	CTT	C22	4/6/2017	13541		work on bogies- pressed out bushings, topped mount holes, cleaned bolts and left final drive	
321212	CTT	C22	4/7/2017	13541		Buff and move around track pads.	
321273	CTT	C22	4/7/2017	0		Work on repairing undercarriage roller mount. Cut into pin housing.	
321275	CTT	C22	4/7/2017	13541		Clean up track bolts. Worked on boogies for l/h track frame (replaced 4)	4 boogies (7T9307)
321351	CTT	C22	4/10/2017	13541		clean track pads, separate cracked pads	
321353	CTT	C22	4/10/2017	0		used picker to flip cat blade, used picker to flip cat frame	
321354	CTT	C22	4/10/2017	13541		replaced 4 main bogies on left track frame, installed 8 snap rings on main bogies(all 8 main bogies done on lh). Installed main bogie plates & snap rings , put in plastic plugs had new shields welded on hard bar, clean parts had track frame flipped	67-3161 snap ring- 8 new bogies (7T9307 - 4 new plugs 96-7516 - 10 new pivot shaft o rings- 4
321417	CTT	C22	4/11/2017	0		Repair cracked cat pads, weld and gouge	
321418	CTT	C22	4/11/2017	13541		Remove side panels, remove ether injection system and plug manifold port. Install left trackframe assembly. Install center bushings and seals in hard bar. Remove oil pan, remove right side truck frame assembly. Remove muffler for repair of exhaust leak. Replaced dipstick blank plugs (3) and prep for oil pan	3/8" plug

ID	Type	Unit	TrackingDate	RecordedHrs	Supplier	Description	Material
323964	Parts Invoi ce	C22	4/11/2017	0	FINNING INTERNATIONAL INC	Hard bar repairs	
321522	CTT	C22	4/12/2017	13541		Remove plastic inserts from around cartridge bushing. Remove snap rings and cartridge bushing caps. Clean threads on bolt holes. Remove rubber from cartridge bushing centers. Cut cartridge bushing centers and remove cartridge bushings. Replaced oil pan gaskets and pickup tube o-ring and dipstick tube o-ring. Installed hardbar, installed CD player.	Oil pan gaskets, 2 o-rings, hard bar bushings (2) - center, hard bar seals for center, CD player.
321569	CTT	C22	4/12/2017	0		Remove paint from track rails.	
321566	CTT	C22	4/13/2017	0		Repair cracked in D8 tracks	
321567	CTT	C22	4/13/2017	0		Install segments on cat	
321568	CTT	C22	4/13/2017	13541		Grinded on segments. Put segments on and torqued left hand side, half o right side. Washed interior pices, started putting them in. Place pads on new rails. Torque pad bolts. Replaced 6 main boogies on r/h trackframe	new segments, 6 boogies 7T9307
321650	CTT	C22	4/17/2017	13541		Install, tighten, torque track pads. Put interior back in. Replace last 2 main boogies on r/h track frame (all new now). Started to replace front 2 and rear 2 roller boogies	
321651	CTT	C22	4/17/2017	0		Install track pads on rails and torque	
321755	CTT	C22	4/18/2017	0		Put side arms for blades back on. Hooked up hoses. Moved block over to welding. Weld cracks on blade.	
321758	CTT	C22	4/18/2017	13541		Check lights and horn. Removed door latches. Install new wiper blades r/h. Install rollers for r/h side and torque. Remove air shut off, disassemble and clean, reassemble and install and adjust. Replaced 4 roller boogies (2 front, 2 rear) on r/h track frame. Remagnetized fuel gauge sending unit.	2 x 13" wiper blades, 4 boogies, 1 snap rings 067-3161, 8 rollers - vtech
321861	Parts Invoi ce	C22	4/18/2017	0	SOUTHERN INDUSTRIAL & TRUCK LTD	Flange to repair muffler	
321837	CTT	C22	4/19/2017	13541		Replaced o-rings for r/h pivot shaft seals and installed. Installed r/h track frame and filled pivot shaft oil. Finished installing sprockets on r/h side and started to weld sprockets. Installed rollers on l/h side, installed idlers, installed muffler. Started to install carrier rollers. Had exhaust clamp fixed. Tightened loose intake clamps.	All new jobber rollers, all new jobber idlers, pivot shaft o-rings
321838	CTT	C22	4/19/2017	0		Repair muffler. Weld up new pipe on muffler.	
321839	CTT	C22	4/19/2017	0		Weld segments on cat. Weld growser bar on cat track	
321885	CTT	C22	4/20/2017	0		help install tracks	

ID	Type	Unit	TrackingDate	RecordedHrs	Supplier	Description	Material
321925	CTT	C22	4/20/2017	13541		clean battery posts & filled washer fluid, finish weld segments on cat , install right & left rails, install pads and torque. Change oil in r&l finals, replaced heater valve and small trans filter hose, cleaned up and checked for leaks. Installed lh side pannel installed fixed exhaust clamp, installed carrier rollers , tightened clamp for bottom rad hose,	oil - mobil trans 30- 7 gal new jobber rails x2
322438	Parts Invoi ce	C22	4/20/2017		SOUTHERN INDUSTRIAL & TRUCK LTD	hydraulic hose	
321997	CTT	C22	4/21/2017	13541		installed rh side panel, clean stump pan bolts, warmed up and warmed hydraulics and checked for leaks(hyd pump seal and trans pump seal). Pull couplers for trans pump input and hyd pump output and pull seals and cleaned parts installed rear plate	
324007	Parts Invoi ce	C22	4/22/2017	0	FINNING INTERNATIONAL INC	Pump drive seals	
322064	CTT	C22	4/24/2017	13542		replace seal and oring on hyd pump output & installed, replaced seal & o ring on trans pump input and installed, replaced drive couplers2, replaced o rings on hyd hoses 2, filled hyd tank, tool cat off stands double checked fluids, warmed up and checked for leaks, intalled stump pans, floor boards and seat checked a/c good	seal 111-4919 seal 203-1095 cap 5H-4279 o ring- 204-3334, o ring 6v-1179 coupling 211-9087x2 misc orings x2 hyd oil 25L anti freeze 5L
322128	CTT	C22	4/25/2017	13542		fixed latch for battery compartment, adjusted track tension, change ripper teeth	
322226	CTT	C22	4/26/2017	0		reinstall c- frame	
322689	Parts Invoi ce	C22	4/26/2017	0	M & R MACHINES	1 " hose	
322761	CTT	C22	5/4/2017	13557		change cable lug on altenator	1 3/8 00 lug
324235	Parts Invoi ce	C22	5/4/2017	0	SOUTHERN INDUSTRIAL & TRUCK LTD	battery cables	
323279	CTT	C22	5/12/2017	13615		Check out oil leak. Found leaking test port on steering pump	
325033	CTT	C22	6/9/2017	13744		Went to Estevan to pick up parts. Changed engin eoil, took SOS samples	LF691H, 44L 15W40
327964	Parts Invoi ce	C22	6/10/2017	0	FINNING INTERNATIONAL INC	Throttle return spring	
325619	CTT	C22	6/21/2017	13769		change decelarator spring	1 new spirng
327311	CTT	C22	7/18/2017	0		Blew rad out, check pivot shaft for leak. No leaks found.	

ID	Type	Unit	TrackingDate	RecordedHrs	Supplier	Description	Material
328649	CTT	C22	8/9/2017	13917		Changed engine oil, took SOS samples. Changed trans oil. Check screens.	LF691A, 44L 15W40, 160L TO4M oil, 343-4465 filter, 465-6502 filter
331422	CTT	C22	9/28/2017	0		Move C22 back to shop	
331778	CTT	C22	10/5/2017	13933		Blew out rads and tapped out air filter.	
332254	CTT	C22	10/16/2017	0		Blew rad out	
332269	CTT	C22	10/16/2017	13987		Blow out rad	
332475	CTT	C22	10/19/2017	14018		Blew out rads	
332649	CTT	C22	10/23/2017	0		Blow out rads and air cleaners	
332892	CTT	C22	10/26/2017	0		Blew out rad	
333528	CTT	C22	11/7/2017	14065		Close to oil change. Still has 15W40. Checked alternator - charging but bad belt and pulleys. Replaced belt and two idler pulleys. Checked/filled fluids.	bet 219-8689, 2 pulleys, 10L 10W30, 16L antifreeze, 10L TO4M trans oil, 8L hyd oil, 2L 30W
335680	Parts Invoi ce	C22	11/7/2017	0	FINNING INTERNATIONAL INC	Alternator	
333733	CTT	C22	11/9/2017	14066		Changed engine oil, took SOS samples. Steering has a clunk in it.	LF691A, 44L 10W30
333805	CTT	C22	11/13/2017	14067		Start machine, warm up and bring in shop. R&I cab floorboard, pull screen - its clean. Pull screen out of transmission - its clean. Pull left axle - inspect (looks good). Order o-rings for the 3 locates I had open and install. Pull magnet out of L/H final drive and clean. Found L/H axle seal failed. Take machine out and test issue again. Found problem gone. Tracks were just froze up. Now they thawed from being in shop.	
333901	CTT	C22	11/14/2017	0		Drain final drives. R&I axles. Both axle seals bad. Order parts. R&I final drive planetaries both sides. Wash. R&I engine air filter. Blow out and install. R&I outer cabl filter, blow out then install.	
333969	CTT	C22	11/15/2017	14067		Install axle seals. Bent one trying to install so I reordered 1 axle seal and transmission suction tube magnet. Install final drive planetary in left side, new orings. Filled with oil. R&I battery cables. Test battery - found one bad. Order 2 new batteries, one cable and repair to cables.	18L30W30, orings, 2 seals 7X4777
335686	Parts Invoi ce	C22	11/15/2017	0	FINNING INTERNATIONAL INC	Axle seals, o-rings, both sides	
335687	Parts Invoi ce	C22	11/15/2017	0	FINNING INTERNATIONAL INC	Thrust ring in final drive	

ID	Type	Unit	TrackingDate	RecordedHrs	Supplier	Description	Material
334009	CTT	C22	11/16/2017	14067		Install new magnet (tube) in tranny suction screen. Install batteries, cables from under cab to batteries, cab floorboards, r/h axle seal, planetaries new orings. Filled with oil, adjust tracks. Install winter front and canvas on engine side doors. Grease.	5/16 x 1" fender washers, 14 x 5/8 tapping screw, 9W5531 tube (magnet), 7X4777 lip seal, 18L 30W hD oil, 9H0846, 5F7054, battery cable, positive battery cable ends
335690	Parts Invoi ce	C22	11/16/2017		FINNING INTERNATIONAL INC	Magnet tube in trans suction screen	
335267	Parts Invoi ce	C22	11/27/2017	0	SASKBATTERY	Battery	
335810	CTT	C22	12/20/2017	14219		Replaced broken bolts on no. 3 roller	6 1/2 x 2" bolts
335831	CTT	C22	12/20/2017	0		Helped Rick with roller	
335867	CTT	C22	12/22/2017	14239		trouble shoot engine low power- hook up ET check for code - no codes, check fuel pressure , it was 77 pdi stretch relief spring 84 yds, spec 95 & 128fi, order fuel transfer pump[and check valves	
336018	CTT	C22	12/28/2017	14255		Change fuel transfer pump and return fuel check valve. Test. Fuel pressure went up to 103 psi I.I.	fuel transfer pump 20R-1525, valve return 2812725, o-rings
336605	Parts Invoi ce	C22	12/28/2017	0	FINNING INTERNATIONAL INC	Fuel pump, valve, & mounting seals	
336068	CTT	C22	12/29/2017	0		Install winter front. R&I cab floorboard, check leak	40L tranny oil
336216	CTT	C22	1/3/2018	14279		Troubleshoot oil leak. R&I seat and floorboard. Wash. Run engine and locate leak. R&I manifold. Order parts.	
339068	Parts Invoi ce	C22	1/4/2018		FINNING INTERNATIONAL INC	O-rings & seals	
336466	CTT	C22	1/5/2018	14279		Install o-rings on manifold. Install o-rings on elbow. Hook up hoses, run check for leaks. Wash area. Found 2 hoses leaking. Phoned Fanning Estevan, order, have them put in outbox. Change o-rings on elbow at filter housing. 3 fittings on outside of filters. Travel to Estevan and pick up hoses.	
336468	CTT	C22	1/6/2018	14279		Install hoses, floor guard, seat. Run - test for leaks. Change both final drives oil	40L 30 oil
339071	Parts Invoi ce	C22	1/6/2018		FINNING INTERNATIONAL INC	Filter housing hoses	
336498	CTT	C22	1/8/2018	14280		Grease machine, hardbar, ripper, etc.	40L 30W final drive oil, o-rings, hoses, 20L 30W trans oil
336577	CTT	C22	1/9/2018	14294		Changed engine oil, took sos samples	LF691A, 44L 10W30
337251	CTT	C22	1/22/2018	14362		Check out transmission leak and ordered hose.	

ID	Type	Unit	TrackingDate	RecordedHrs	Supplier	Description	Material
337458	CTT	C22	1/24/2018	14372		Changed transmission filter hosing hose, top up transmission.	1 new hose 15 L 104M oil
337515	CTT	C22	1/25/2018	14382		Broken and missing roller bolts. Pulled roll, checked for leak (trans filter hose).	
337623	CTT	C22	1/26/2018	14382		Changed left middle roller 3rd roller. Weld out broken bolts. Changed trans filter housing hose	4 new bolts, 1 new roller, 1 trans hose
339150	Parts Invoi ce	C22	1/26/2018	0	FINNING INTERNATIONAL INC	Trac roller bolts	
339154	Parts Invoi ce	C22	1/26/2018	0	FINNING INTERNATIONAL INC	Trans hose	
338310	CTT	C22	2/8/2018	14474		Change engine oil, took sos samples	LF691A, 44L 10W30
339060	CTT	C22	2/21/2018	14568		Travel to Cat. R&I fuel filters. Install new. Check codes, clear them. Check fuel pressure - now 100+ psi	fuel filters 1261644, 1R0762
343032	CTT	C22	5/8/2018	0		Troubleshoot engine misfire and low power. Perform cylinderr cut out test. Found #1 questionable but all others number only one point higher. Test air to air - help 40psi. Found turbo waste gate leaking air. R&I hose for waste gate and install a plug. Blow out air to air. Test machine. Boost went up 2 psi but still on the low side	1/8" pipe plug
345585	Parts Invoi ce	C22	5/10/2018	0	FINNING INTERNATIONAL INC	Injector	
343257	CTT	C22	5/12/2018	14652		Blow dirt off of engine. R&I front valve cover. R&I #1 injector. Clean injector bore. Install 20R roman injector. Install new hold down bolt and torque to spec. Install rocker shaft. Torque bolts. Adjust #1 and 2 valves and injector height. Install valve cover. Flush fuel system.	20R2284 inj, 859191 bolt
345588	Parts Invoi ce	C22	5/15/2018	0	FINNING INTERNATIONAL INC	Master switch	
343439	CTT	C22	5/16/2018	14670		Hook up ET. Install injector trim code for #1. Stretch fuel transfer pump relief spring. Adjust fan clip pressure.	
344791	Parts Invoi ce	C22	5/16/2018	0	INDUSTRIAL PARTS & EQUIPMENT LTD	Cutting edges	
343488	CTT	C22	5/17/2018	14671		Changed cutting edge, changed corner bits, changed engine oil and took SOS samples.	LF691A filter 44L 15-40 oil 2 corner bits cutting edge bolts for cutting edge

ID	Type	Unit	TrackingDate	RecordedHrs	Supplier	Description	Material
345593	Parts Invoi ce	C22	5/22/2018	0	FINNING INTERNATIONAL INC	Injector core credit	
344673	CTT	C22	6/6/2018	14748		Perform cylinder cut out test - passed. Blow out engine air filter, rad and air to air. Blow cab and cab filter.	
347329	Parts Invoi ce	C22	6/19/2018		FINNING INTERNATIONAL INC	A/C hose	
346154	CTT	C22	7/5/2018	14877		Changed window glass. Changed engine oil, took sos sample	door glass, 44L 15W40, LF691A
346415	CTT	C22	7/10/2018	14889		Blow out engine and cab filters. Blow out rad and cab.	
347724	CTT	C22	8/2/2018	15300		Changed fuel line	fuel line
348327	CTT	C22	8/15/2018	15107		Changed oil, took SOS sample.	LF691A 44L 15-40
350770	Parts Invoi ce	C22	8/17/2018	0	FINNING INTERNATIONAL INC	Engine oil drain plug	
348843	CTT	C22	8/22/2018	15169		A/c cab fan not working. Travel to check circuit breaker. There was power fan not turning. I removed out air filter and pushed on fan blade did not cut in. R & I seat and base R & I cover over over fuse panel. Install 30 amp circuit breaker unplug air compressor and hotwire it in. Use big air compressor and blow on fan motor it cut in. Blow out cab, all filters and rad	
348873	CTT	C22	8/23/2018	15169		Install extra fan in cab	
350775	Parts Invoi ce	C22	8/23/2018	0	FINNING INTERNATIONAL INC	AC/heater fan motor	
348960	CTT	C22	8/24/2018	15185		Changed trans oil & filters. Changed blower motor. Changed water valve	140 L of oil 343-4465 filter 343-4465 465-6502
349515	CTT	C22	9/6/2018	15205		Fix blow motor wiring. Wires were rubbed through at A/C compressor blow breaker.	
350375	CTT	C22	9/18/2018	15260		Open water valves for heaters.	
351934	CTT	C22	10/18/2018	15384		Took samples for eng, trans, finals, changed eng oil and filter, replaced air filter and cab filter, checked antifreeze and added concentrate, checked trans, hyd and final oils.	45L-15W40 oil filter air filter cab filter 4-sample bottles

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374029	CTT	C22	10/28/2018	0		Lloye heard noise when at the rear of the machine. Go to machine to check fluids and start machine. Heard a slight tic in the engine and a flutter. I did a cylinder cutout test cycle, are very equal. Milo showed up and I talked to him and he never heard anything. So I took seat out and put wear sliders back in place and let him go to work.	
353157	CTT	C22	11/9/2018	15505		Trans oil leak, leaking orings on transmission hose fitting in tub. Check out oil leak, need to fix.	
353316	CTT	C22	11/13/2018	15523		Transmission oil leak. Hydraulic oil leak. R & I cab floor boards. R & I rear cab plate. Blow dirt out off under cab. Found oil leak on main hydraulic valve	
353440	CTT	C22	11/14/2018	15524		Oil leaks. R & I tranny hose, remove fitting, change orings after washing parts. Install fitting, tighten, install hoses, removed to get fitting out. Install front valve cover. Hook up implement and tranny ECM. Start engine, warm up, check for leaks all good. Shut down, remove ECM, install back panel, floor panels, seat, etc. Blow out cab, cab filters, batteries and engine air filter	2 - 6K 6307 oring 2 - 6V8400 oring 2 - 5K9090 oring 20L hydraulic oil 20 L 30W tranny oil
354509	CTT	C22	12/3/2018	15570		Welded corks on tracks.	
354524	CTT	C22	12/3/2018	0		Cut corks, clean shop.	
354589	CTT	C22	12/4/2018	0		Corked cat	
354708	CTT	C22	12/6/2018	15571		Kidney loop	
354778	CTT	C22	12/7/2018	15571		Changed engine oil, changed oil final drives, run kidney machine on trans, wsh cat.	
354912	CTT	C22	12/10/2018	0		Pulled out of wash bay, change ripper tips.	
355705	CTT	C22	12/21/2018	15651		Replace front valve cover, calibrate tranny, fill and brake, touch up.	valve cover, warranty
356895	CTT	C22	1/16/2019	15777		Oil change Took oil sample.	1-LF691A 44L-10/30
356975	CTT	C22	1/17/2019	15780		Exhaust leak, battery post corroded. Change muffler, take old muffler to welding shop, clean all battery posts and cables, check alternator, check main fuse, all good. Blow out rad and machine, grease hard bar.	1-3/0 battery cable end negative 2-bolts for cable ends
357053	CTT	C22	1/18/2019	15780		Take muffler to welding shop and explain what needs fixing.	
357237	CTT	C22	1/22/2019	0		R&I floor boards, inspect for leaks and found no oil leak. Found a small antifreeze leak at heater box and order up parts to repair.	
358014	CTT	C22	2/5/2019			Changed fuel line from filter housing to head	1 fuel hose
358128	CTT	C22	2/7/2019	15861		Dropped back stump check out oil leak. Leak by torque & bell housing orings	
358615	CTT	C22	2/14/2019	15891		Oil leak. R & I cab floor boards. Found no oil leak in that area	
358621	CTT	C22	2/15/2019	0		Move cat to 15-12-1-12	

ID	Type	Unit	TrackingDate	RecordedHrs	Supplier	Description	Material
358666	CTT	C22	2/15/2019	15891		Plug in block heater. Drop rear stump pan, once block was warm started engine, heated up to operating temperature, check leaks, found it is transmission oil leaking out of bell housing on right side. Install stump pan.	
359073	CTT	C22	2/28/2019	15966		Oil leak coming from stump pan, engine oil change. Drop stump pans and found cover on fly wheel housing leaking. R&I newer had o-ring so I siliconed it and put cover back on. Changed engine oil and filter. R&I engine dip stick, tube clean change o-ring and put silicone around o-ring and put back in engine. Change tranny and torque filters.	LF691A-oil filter 45L 10/30 engine oil 2-3434465
359144	CTT	C22	3/1/2019	15971		Clean stump pans, blow out rad.	
361858	CTT	C22	5/3/2019	0		Hydraulic oil leak. Look up to head out Saturday morning	
361861	CTT	C22	5/4/2019	16035		Hydraulic oil leak. R & I floor boards, check hoses for steering. They looked ok. Put 20L hydraulic oil in tank. Start engine, shut down right away. Found hose from hydraulic pump to main control valve blown. Look up part number call Chad to check Young's building found no hose. Phone finning Estevan they never had, ask him to check Regina stock parts were there so I called Regina dn order as per Dennis	20 L hydraulic
361902	CTT	C22	5/6/2019	16035		Hydraulic oil leak. Installed hose, fill hydraulic tank, run machine. Check for leak. All good. Put cab back together. Move machine out of oil spill area. Drop rear stump pan and tighten bolts on hose at hydraulic pump. Install stump pan. Check oil level.	80L hydraulic oil
364185	Parts Invoi ce	C22	5/7/2019	0	FINNING INTERNATIONAL INC	Hydraulic hose	
364186	Parts Invoi ce	C22	5/7/2019	0	FINNING INTERNATIONAL INC	Hose assembly	
362561	CTT	C22	5/22/2019	0		Blow out rad, cab, battery box and filters.	
363339	Parts Invoi ce	C22	5/28/2019	0	SPEEDY GLASS	Door glass	
363014	CTT	C22	5/30/2019	16164		A/C not working properly. Check A/C out, blow filters, check freon, change, top up. Change engine oil and filter.	LF691A-oil filter 44L-15W40 oil

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363125	CTT	C22	6/3/2019	16176		Left cab door window broken. R&I old window, attempted to install new window. Got the bottom in but top corners would not go in. Pulled window out and put it together, old window and found top corners and one side longer then old dindow. Installed old window.	
363159	CTT	C22	6/3/2019	0		Helped on window with Tim.	
363300	CTT	C22	6/7/2019	16214		Installed left door glass.	
365105	CTT	C22	7/11/2019	16337		Low power Check fuel pressure and turbo boost, stretch spring in fuel transfer pump, fuel pressure 105 psi, turbo boost 17 psi. Waste gate unhooked on trubo, also noticed fan pressure sensor not reading.	
365244	CTT	C22	7/16/2019	16364		Changed engine oil and took SOS samples, blew road out.	LF691A 44L-15/40
367469	CTT	C22	9/5/2019	16409		Changed transmission oil and filters, check trans screens.	140L TO4M 2-343-4465 filters
370080	CTT	C22	11/5/2019	16463		Changed fuel filters, checked antifreeze on units B18, C50, C23, C22.	
370734	CTT	C22	11/20/2019	16517		Intermittent engine misfire Run machine around yard trying to get a misfire. Installed left window glass. R&I bring in shop and test fan pressure sensor; its good. R&I valve covers, pry on wires going to injectors; all good. Injectors look good. Install valve covers.	
370752	CTT	C22	11/20/2019	0		Rip out bent bar guards at ripper.	
370797	CTT	C22	11/21/2019	16517		Engine misfire, engine running cold. Finished install intake pipe and exhaust, put 4 bottles of sea foam in fuel tank.	
370805	CTT	C22	11/21/2019	0		Repair crack along blade, repair crack on roller, inspect for more cracks, work on rear frost guard for ripper.	
370935	CTT	C22	11/22/2019	16517		Intermitent engine misfire Hook up ET, take machine outside, heat up, do cylinder cut. Test and found #5 bad, ordered injector. Discussed fan pump control valve; also looked up in notes how many fan pump controls needed.	
372532	Parts Invoi ce	C22	11/25/2019		DSG Power systems	Replacement fuel injector	
373357	Parts Invoi ce	C22	11/29/2019	0	FINNING INTERNATIONAL INC	Hyd. Fan control	
371314	CTT	C22	12/3/2019	16518		Injector missfire, fan control valve not functioning properly. Start machine and bring in steam bay wash.	

ID	Type	Unit	TrackingDate	RecordedHrs	Supplier	Description	Material
371383	CTT	C22	12/4/2019	16518		Fan not functioning properly. Changeed fan control valve, did not fix issue, checked wiring again and it test ok. Ran new wire, same problem. Never had ET working to work with program. Took ECM off of C28, plugged it in and found fan now works correct.	
371478	CTT	C22	12/5/2019	0		Engine fan pump control valve not functioning properly Flashed engine ECM with current flash file and did not help so copied C28's ECM program. Put it in C22 ECM and still never helped so installed C28 enine ECM inC22. Removed new fan pump control valve and installed original controller and started engine and tested. Fan ran as it shou and all is good. Installed all guards. C22 hours are 16518 but now with C28 engine ECM on C22 it read 15937 which was C28 hours. I will straighten all hours once we get the ECM.	
373359	Parts Invoi ce	C22	12/6/2019	0	FINNING INTERNATIONAL INC	fan valve gaskets	
373362	Parts Invoi ce	C22	12/7/2019	0	FINNING INTERNATIONAL INC	Reman ECM	
371962	CTT	C22	12/16/2019	16576		ECM failed R&I engine side guard, changed out ECM, hooked up ET and installed engine and ECM repalcement file. Installed engine side guard.	1-ECM 10R5647
371981	CTT	C22	12/17/2019	16580		Start machine and warm up to change final drive oil. Changed both final drives and wash out.	28L-HD30W
372232	CTT	C22	12/23/2019	16582		Corking pads	
372412	CTT	C22	1/2/2020	16582		Changed engine oil, took SOS samples	LF691A 44L-10-30
372655	CTT	C22	1/7/2020	0		Move C3 out of welding shop, move C22 in, take off broken headlight, tape cylinders to weld.	
372717	CTT	C22	1/8/2020	0		Welding in plates on ripper to stop frozen material from coming up.	
372981	CTT	C22	1/14/2020	0		Weld keeper on dozer pin.	
373245	CTT	C22	1/21/2020	0		Help tim drain oil on trans	
373277	CTT	C22	1/21/2020	0		Transmission oil getting higher on dipstick. Take transmission oil sample. Found engine oil in tranny oil. Repair left window latch. Drain transmission oil leve dow to full mark.	
373917	Parts Invoi ce	C22	1/22/2020	0	SASKBATTERY	Battery	

ID	Type	Unit	TrackingDate	RecordedHrs	Supplier	Description	Material
373416	CTT	C22	1/23/2020	16654		Engine oil transferring into transmission oil. R & I pins to pivot stump pans, beat brack and straighten so pins would drop down, remove pans, cabl floor baords, engine side guards, then wash for removal of torque converter, marke parts list up for replace rear crank shaft seal.	
373475	CTT	C22	1/24/2020	16658		Engine oil transferring to torque convertor. Mvoe from steam bay to shop. Heat up engine check for external oil leaks. R & I torque convertor, R & I fly wheel, R & I rear seal	
373579	CTT	C22	1/27/2020	0		remove rear crank shaft seal wear sleeve, clean up end of crank, wash out bell housing, wash bolts and hoses. Wash torque converter, remove output seal and shaft	e
373627	CTT	C22	1/28/2020	0		transferring engine oil into torque convertor, front lights not working, left door wipers not working- change fuse and repair wiring for headlight, R&I covers found wiper motor gear stripped. Order new motor also found bottom wiper shaft siezed, install new one. Install rear engine crank shaft seal, install torque convertor out put seal	1-222-5377 shaft as bottom wiper 1-1425868 seal gp crankshaft 1-1564575 torque output seal 1-9H0846 o-ring 1-252251 o-ring
374953	Parts Invoi ce	C22	1/28/2020	0	FINNING INTERNATIONAL INC	Rear crank seal	
373688	CTT	C22	1/29/2020	16659		INSTALL TORQUE CONVERTER HOOK UP HOSES , CHANGE LEFT DOOR WIPER MOTOR	1-5112372 MOTOR WIPER 3- RIPPER TIPS 4t5452
374955	Parts Invoi ce	C22	1/29/2020	0	FINNING INTERNATIONAL INC	Driver side wiper motor	
373747	CTT	C22	1/30/2020	0		repair flapper on air filter	
373775	CTT	C22	1/30/2020	16660		flush tranny clean screens , test heater found heater valve does not shut off,	1-2641476 water valve 2- 3434465 filter tranny 150 L of 30 w cat oil tranny
374958	Parts Invoi ce	C22	1/30/2020	0	FINNING INTERNATIONAL INC	screen	
373808	CTT	C22	1/31/2020	16660		Installed recleaner, glue silicone tubes. Finished filling tranny oil. Installed engine side guards, cab floor boards, installed a second hose clamp on each lower rad hose, installed front two stump pans.	
374959	Parts Invoi ce	C22	1/31/2020	0	FINNING INTERNATIONAL INC	Rear seal replacement, fix leaks on torque convertor	

ID	Type	Unit	TrackingDate	RecordedHrs	Supplier	Description	Material
373941	CTT	C22	2/3/2020	0		Recovered freeon, pulled batteries, pulled heater core and flushed internally and blew out. Repalced heater valve and checked switch and actuator; it is good. Removed mouse nest.	heater valve
373990	CTT	C22	2/4/2020	16662		Installed heater core, installed venturi hose, cleaned batteries and load tested and cleaned cables. Installed batteries, replaced air filter, checked/filled fluids, recharged A/C, warmed up and checked for leaks, installed stump pans.	air filter 7L-10W30 3L-TO4M 15L-antifreeze hose 3#-6 oz freon
374051	CTT	C22	2/5/2020	16662		Cleared grease pasage for LH hard bar, greased unit, remagnetized fuel level sensor and put in missing RH hard box plug.	hard bar plug
375794	Parts Invoi ce	C22	2/5/2020		FINNING INTERNATIONAL INC	hose	
375806	Parts Invoi ce	C22	2/6/2020	0	FINNING INTERNATIONAL INC	plug, bearings, seal	
374481	CTT	C22	2/13/2020	0		Fix antiifreeze leak	
376454	CTT	C22	4/6/2020	16740		Take off stump pans, blew cat off with 1 inch air line. Take off rock guard on raper. Brought to welding shop to fix and take off winter front and sidings.	
376737	CTT	C22	4/20/2020	0		start, clean shop bay, and put into shop	
376752	CTT	C22	4/20/2020	16741		check over to go to work, slight lease from torque converter seal, retorque oil pan, changed engine oil took sos , change air cleaners. Remove floor boards and set started to remove heater hose	inner, outer air cleaner lb691A filter 44 L 15-40
376775	CTT	C22	4/21/2020	16742		changed healer hose from engine to heater core, changed fuel sediment bower	343-5527 bowelass, 16 ft 5/8 heater hose
376856	CTT	C22	4/23/2020			installed stump pans and floor boards and side panels	
377263	CTT	C22	5/1/2020	0		build up ripper guard and hard surface	
379642	CTT	C22	7/8/2020	0		Air shutdown does not work. Exhaust stack needs repair. Removed exhaust stack, took to welding shop. Gresed hard bar. Went throught cat list.	
380741	CTT	C22	8/5/2020	16742		Started to remove push arm pins. Made tooling in welding shop to push pins with press.	
381023	CTT	C22	8/10/2020	0		Made sure pusharms are on wrong sides. Made tool to pull pusharm bearing pins and had welders reinforce it.	
381035	CTT	C22	8/11/2020	16742		Pulled pusharm bearing pins without cutting bolts and inspected; worn out. Replaced pusharm bearings and snap rings. Installed pusharms on opposite sides, installed tilt cylinders.	2-pusharm bearings 4-snap rings

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381068	CTT	C22	8/12/2020	16742		Checked fluids and air filter, checked lights, horn, and bu alarm, lookd over misc. Free'd up air shutoff cable and adjusted air shutoff. Greased unit; hard bar won't take grease and seals blown. Put cat on stands and started to replace outside hard bar bearings; RH side is worn out and not sure yet about LH side.	
381140	CTT	C22	8/13/2020	16742		Replaced outer hard bar bearings, snap rings, and seals.	2-bearings 4-snap rings 4-seals
381189	CTT	C22	8/14/2020	16743		After welder welded on hard bar shields, installed hard bar pins and took cat off stands. Installed stump pans and greased hard bar. Repalced fuel level sending unit.	fuel level sending unit
381307	CTT	C22	8/17/2020	0		Repair broken guard plate on ripper frame.	
383234	CTT	C22	10/9/2020	16933		Changed engine oil, took SOS samples. Found leak on turbo line, ordered parts.	LF691A 44L-15-40
383289	CTT	C22	10/13/2020	16944		Removed turbo line from unit C26. Installed used turbo line on C22.	turbo line gaskets and o-ring
383297	CTT	C22	10/13/2020	0		Take parts to Oungre for Rick.	
384525	Parts Invoi ce	C22	10/15/2020	0	FINNING INTERNATIONAL INC	Seals to re-install turbo line	
383687	CTT	C22	10/22/2020	16996		Changed trans filters, took to shop to cut open.	2-trans filters
384616	CTT	C22	11/19/2020	17045		Put filter cart on transmission oil.	
384651	CTT	C22	11/20/2020	0		Installed filter card on transmission, primed up pump.	
384704	CTT	C22	11/23/2020	17045		Drain trans oil, removed broken enviro plug and filled trans oil and ran cat	30 litres of trans TO4m
385454	Parts Invoi ce	C22	11/24/2020	0	FINNING INTERNATIONAL INC	Transmission drain valve	
385047	CTT	C22	11/30/2020	0		Fuel cat and changed ripper teeth, help load.	
385299	CTT	C22	12/10/2020	17100		Tighten up heater hose by heater core. Check over fill with fuel.	
385870	CTT	C22	1/5/2021	17116		Changed engine oil, load tested batteries, took SOS samples. Checked block heater, installed winter front and side canvas. Checked/filled fluids and tapped out air filter, replaced light bulb, greased unit, pulled floorboards and inspected; good. Checked codes and found injector trim is not programmed.	LF691A 44L-10-30 8L-TO4M 5L-antifreeze 5L-hyd oil 24V bulb
386007	CTT	C22	1/7/2021	0		Swap ripper teeth and store guards with C14 tighten tracks. Blow off dirt for organic.	
387193	CTT	C22	2/10/2021	0		Clean out carrier rollers.	
387201	CTT	C22	2/10/2021	0		Wait for truck, start cat, free rollers.	
389297	CTT	C22	4/7/2021	0		Removed welder form truck. Installed C32 welder onto truck.	

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389736	CTT	C22	4/21/2021	0		Open and close rad girlls, blow out rads, battery boxes, undercarriage, grease hard bars, fill centre pins.	
390932	CTT	C22	5/18/2021	0		Clean and check unit. LCD not working but dash gauges do.	
391022	CTT	C22	5/20/2021	17232		Pulled advisor display and checked for power and grounds; good. Installed and buttoned up.	
397020	CTT	C22	10/27/2021	0		Load tested batteries, check posts.	
398488	CTT	C22	12/2/2021	0		Cut and paint plywood for unit, plywood for rock guard back window.	
402194	CTT	C22	3/7/2022	0		Top up engine oil, start unit and let warm up. Check fluids, top up pivot oil, washer fluid, replaced ripper tips. Replaced broken shank guard. Fuel up	10w30 - 4l 30w - 3l washer fluid - 3l ripper tips - 3
404222	Parts Invoi ce	C22	4/7/2022	0	EMSCO	Replacing monitor in cab of Unit	
405428	CTT	C22	5/26/2022	17347		Changed Engine Oil. Took SOS samples. Installed adviser monitor. Need to get flash files or program monitors.	LF69111 44 litres 15-40
405477	CTT	C22	5/27/2022	0		Did check list on Cat with Alex. Fix wash fluid nozzles	
405480	CTT	C22	5/27/2022	17347		Attempt to program advisor display ecm. (advisor not supported for ecm repalcement with our software)	
405685	CTT	C22	6/3/2022	0		Needs early trans oil changed then filters again in 100 hrs. Install softwear for advisor display and buttoned up troubleshoot trans filter bypassing. Changed and cut trans filters (extremely full of dirt) Replaced trans breather (plugged up and incorrectly installed) Repalced rubbed hsoe going to trans fill tube. Noticed trans fill cap is new and after amrket (someone lost fill cap) Checked started (not missing plug)	Advisor ecm display trans breather hydraulic hose
406947	CTT	C22	7/4/2022	0		Pulled stump pans. Started to change to change transmission oil.	
406996	CTT	C22	7/5/2022	0		Made parts list. Made socket for enviro plug and tried ot install (hole needs tapped)	
408669	Parts Invoi ce	C22	7/5/2022	0	FINNING INTERNATIONAL INC	Changing hydraulic hses and oil pan gasket	
407079	CTT	C22	7/6/2022	0		Installed missing enviro plug. Checked and cleaned rear trnas screen. Pulled seat and floorboards. Pulled side panels	
407120	CTT	C22	7/7/2022	0		Checked and cleaned top trans oil screen and magnet (found part of old enviroplug, a rag and a bunch of leaves) Vacuumed out pipe going down in to transmission. Washed work areas	
407167	CTT	C22	7/8/2022	0		Pulled two bad hydraulic hoses. Pulled main driveshaft. Pulled TC seal.	

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407373	CTT	C22	7/13/2022	0		Installed TC Seal. Started to remove trans seal	
407445	CTT	C22	7/14/2022	0		Repalced transmission input seal. Installed main driveshaft. Installed 2 hydraulic hoses. Capped off leaking test part hose	Trans input seal Hydraulic Hoses - 2
407506	CTT	C22	7/15/2022	17349		Filled trans oil. Warmed up and check leaks. Troubleshooting ticking TC/pressure fluctuation. Swapped priority valve with used one. Did trans fill calibration. Checked over power train pressures. If priority valve pressure is set to 300PSI (spec 387 PIS) It doesn't do it, set to 387 and continued troubleshooting. Trans lube pressure out of spec (basicly 0 when its happening)	TO4M - 160 L
407568	CTT	C22	7/18/2022	0		Troubleshooting priority valve tick	
407610	CTT	C22	7/19/2022	0		Troubleshooting priority valve tick	
408680	Parts Invoi ce	C22	7/19/2022	0	FINNING INTERNATIONAL INC	Replacing filters	
407988	CTT	C22	7/25/2022	0		Pulled 2 idler caps for Rick to use on another unit and cleaned parts	
408031	CTT	C22	7/26/2022	0		Clenaed and installed magnetic screen. Started to pull power train pump	
408062	CTT	C22	7/27/2022	0		Pumped trans oil in to clean barrel . Replaced o-ring for priority valve check valve, pulled power train pumps. Took pumps apart and inspected (some wear)	o-ring
408684	Parts Invoi ce	C22	7/27/2022	0	FINNING INTERNATIONAL INC	Replacing hydraulic hose	
408118	CTT	C22	7/28/2022	0		Pulled started and resealed. Installed starter	gasket O-ring balls - 6
408219	CTT	C22	7/29/2022	0		Installed idler caps (2). Pulled oil pan and slipstick blanks. Prep and clean parts	idler caps - 2
410307	Parts Invoi ce	C22	8/2/2022		FINNING INTERNATIONAL INC	Final drive	
410308	Parts Invoi ce	C22	8/2/2022	0	FINNING INTERNATIONAL INC	Parts for final drive	
408304	CTT	C22	8/3/2022	17351		Installed dipstick blanks. Replace o-rings fo rpick up tube and pump discharge tube. Installed oil pan. Filled engine oil and replaced filter. Installed LH Side panels and mounted RH Side. Replaced o-ring and gasket for rear transmission panel	dipstick blanks - 3 o-rings - 3 gaskets - 2 15w40 - 45 L
408328	CTT	C22	8/4/2022	0		Replaced bushings in power train pump. Clean parts	10- bushings

ID	Type	Unit	TrackingDate	RecordedHrs	Supplier	Description	Material
408362	CTT	C22	8/5/2022	0		Re-built power train pumps.	gear shafts 2 gears 2 orings seal
408489	CTT	C22	8/8/2022	0		Installed power train pumps & pump driveshaft. Started to button up hoses.	o-rings pump shaft couplers - 2
408528	CTT	C22	8/9/2022	0		Installed pump pickup/screen manifold. Repalced TC output seal (spring had come off) and cleaned out pieces of spring. Installed driveshaft and installed hoses, lines, lube distribution manifold and misc	
408573	CTT	C22	8/10/2022	17351		Finish install hoses, filled trans oil and double checked engine oil. Warmed up and check for leaks (good). Buttoned up cab. Double checked trans relief and priority valve pressures & adjusted priority valve pressure. Buttoned up trans filter compartment and stump pans. Replaced air filter, cleared logged codes. Dug out track frames and greased unit. Flushed out final drives & changed oil	T04M - 30L 15w40 - 1.5 L Hyd hose air filter T04 - 30 L
408621	CTT	C22	8/11/2022	0		Noticed steering was sluggish. Replaced steering filter. Worked out air from steering motor and hydraulics. Better now.	steering filter
410312	Parts Invoi ce	C22	8/11/2022	0	FINNING INTERNATIONAL INC	S seals	
409044	CTT	C22	8/22/2022	0		Work on A/C on dozer	
409047	CTT	C22	8/22/2022	17373		Check out AC system. Blower motor not working.	
410326	Parts Invoi ce	C22	8/22/2022	0	FINNING INTERNATIONAL INC	Replacing heater fan	
409108	CTT	C22	8/23/2022	17385		Changed blower motor	1 - blower motor
410327	Parts Invoi ce	C22	8/25/2022	0	FINNING INTERNATIONAL INC	Replacing glass on unit	
410330	Parts Invoi ce	C22	8/31/2022	0	FINNING INTERNATIONAL INC	Replacing shaft on fan motor	
409575	CTT	C22	9/1/2022	17440		Installed door glass on left door. Fix antifreeze leak. Bump up AC	
410078	CTT	C22	9/13/2022	17466		Antifreeze leak. Wash Cat up by heater core. Changed antifreeze line. Top up with antifreeze	10l antifreeze
410900	Parts Invoi ce	C22	9/13/2022		SOUTH COUNTRY EQUIPMENT	hydraulic hose replacement	
416141	CTT	C22	2/3/2023	0		fixed RH window washer, replaced wiper blades on LH door	wiper blades 13"x2

ID	Type	Unit	TrackingDate	RecordedHrs	Supplier	Description	Material
416573	CTT	C22	2/13/2023	0		changed block heater, top up with antifreeze	1 new block heater, 10 L antifreeze
423849	CTT	C22	8/16/2023	17568		changed oil, took sos samples	lf691a, 44 L 15-40
440614	CTT	C22	8/16/2024	17625		trouble shoot , hyd don't work, no oil, pulled floorboards and side panel and check for leak, replaced hyd cooler hose, filled hyd oil, buttoned up	
440840	Parts Invoi ce	C22	8/16/2024	0	E. BOURASSA & SONS	Hydraulic repair	