EQUIPMENT NO. 16

EQUIPMENT MAINTENANCE RECORD

2007 John Deere 410J Back-Hoe

Date	Miles/ Hours	Description of Work Done			Item	Cost of Item	Labor (Hrs.)	Cost of Labor
			Napa	John Deere				
		Oil Filter	7750	RE504836				
		Fuel Filter (Final)	3668	RE509031				
		Fuel Breather		AM107314				
		Air Filter (Inner)	6569	AT171854				
		Air Filter (Outer)	6562	KV16429				
		Hyd. Filter	7709	AT308274				
		Hyd. Tank Breather Filter	3033	AT101565				
		Trans. Filter	7201	AT179323				
		Cab Fresh Air Filter	9161	AT191102				
		Cab Recirculation Filter		AT184590				
July 2007	5	Bought the Back-Hoe new from Foster F Wineland for						
		$87,691.91						
		The items we have for the Back-Hoe that were not						
		included in the purchase are:						
		5 ft. Pallet forks. Bought February 1999 - $1,245.00						
		30 in. Wain Roy bucket. Bought June 1997 - Estimated						
		value $1,500.00						

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2007 John Deere 410J Back-Hoe

Date	Miles/ Hours	Description of Work Done	Item	Cost of Item	Labor (Hrs.)	Cost of Labor
9/13/2007	5	Removed cab head liner.	2 Way radio wiring	$18.00	80	$1,600.00
		Fabricate and installed 2 way radio mounting bracket.	2 Way radio antenna kit	$61.63		
		Mounted 2 way radio and installed radio wiring.	Boom plate	$412.00		
		Fabricate and installed 2 way radio antenna mounting	Bushings	$38.76		
		bracket.	Bolts and fasteners	$18.56		
		Mounted 2 way radio antenna and installed antenna	Pallet fork hooks	$184.75		
		wiring.	Chain hooks	$48.96		
		Installed the head liner back in the cab.	Decals	$30.00		
		Made and installed holder for the accessory foot control	Paint	$8.99		
		pedal.				
		Installed rear boom protection plate.				
		Painted underside of the boom.				
		Made and weld support plates on the pallet forks mounting				
		hooks.				
		Welded and installed pallet forks mounting hooks on the				
		front bucket.				
		Welded 3 chain type hooks on the front bucket.				
		Primed and painted top and sides of the front bucket.				
		Welded 1 chain type hook on the rear bucket.				
		Fabricated and installed dividers in the tool box.				
		Painted tool box and installed a rubber mat in the tool box.				
		Installed Antrim decals and numbers.				
		Installed first aid kit and fire extinguisher inside the cab.				
		Washed back-hoe.				
9/24/2007		Bought extra hyd. fittings for the rear Wain Roy bucket.	Hyd. fittings	$22.95		
2/6/2008	117	Foster Wineland performed the first 100 hr. service.				
		(No charge)				

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2007 John Deere 410J Back-Hoe

Date	Miles/ Hours	Description of Work Done	Item	Cost of Item	Labor (Hrs.)	Cost of Labor
2/8/2008	120	Adjust front bucket leveling control.			1	$20.70
		Greased back-hoe.				
3/17/2008	189	Foster Wineland came to our shop to check the Wain				
		Roy bucket drifting. Tim the mechanic couldn't find				
		anything wrong with it at this time.				
		(No charge warranty)				
3/31/2008	196	Tim from Foster Wineland came to our shop to check the				
		Wain Roy bucket drifting problem again. Tim adjusted the				
		hyd. relief valves. He told us to use it and he would talk to				
		Wain Roy personnel about the problem and get back				
		with us.				
		(No charge warranty)				
4/22/2008	229	Tim from Foster Wineland came to our job site to check				
		the Wain Roy bucket drifting problem again. It was				
		leaking off to the side bad enough that it was not useable.				
		Tim was unable to fix it at the job site. We took the				
		back-hoe to Foster Winelands shop. They gave us a				
		back-hoe to use until they could fix the problem.				
4/24/2008	230	We got the back-hoe back from Foster Wineland. They had				
		to set the relief valves to the maximum specifications to				
		take care of the bucket drifting problem. It seems to be				
		OK at this time.				
		(No charge warranty)				

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EQUIPMENT MAINTENANCE RECORD

2007 John Deere 410J Back-Hoe

Date	Miles/ Hours	Description of Work Done	Item	Cost of Item	Labor (Hrs.)	Cost of Labor
8/22/2008	433	Repaired and reinforced the rear boom hyd. hose bracket.	Hyd. hose	$62.71	8	$165.60
		Weld and paint 2 other broken off hyd. brackets.	Paint	$18.38		
		Replaced hyd. hose to the rear bucket.				
2/12/2009	577	Took the back-hoe to Foster Wineland for a transmission				
		oil leak.				
		I took the rear bucket off for repairs.				
		Foster Wineland gave us a back-hoe to use while they				
		worked on ours.				
2/17/2009	577	Fabricate and weld support plates on the rear bucket.	Grinding wheels	$7.96	24	$512.40
		Removed broken tooth shank and welded a new one on.	Tooth shank	$39.20		
			5 Tooth pins	$18.66		
			Metal	$21.47		
2/20/2009	577	Got the back-hoe back from Foster Wineland.				
		They removed the transmission and replaced seals.				
		(No charge warranty)				
3/26/2009	617	Changed oil, oil, fuel and air filters.	13 qts. oil	$37.83	6	$128.10
		Greased. (Serviced)	Oil filter	$10.25		
		Repaired strobe light wiring.	Fuel filter	$20.75		
			Air filter	$29.75		
			4 qts. hyd. oil	$8.65		
5/1/2009	654	Replaced bulb in work light.	Bulb	$4.50	2	$21.35
		Repaired loose work light assembly.				

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2007 John Deere 410J Back-Hoe

Date	Miles/ Hours	Description of Work Done	Item	Cost of Item	Labor (Hrs.)	Cost of Labor
7/26/2009	703	Removed broken rear bucket tooth shank.	Tooth shank	$33.45	12	$256.20
		Welded and installed new tooth shank.				
		Welded other tooth shanks.				
		Greased back-hoe.				
		Repaired and adjust door latch.				
		Repaired strobe light wiring.				
7/29/2009	704	Willy had a rear tire go flat on Zarger road. I got the spare	Byers tire repair	$134.45		
		from the storage trailer and went to put air in it and it				
		also was leaking. We took the spare to Byers Tire to have				
		it repaired. The total cost for the tire repair and tube was				
		$134.45				
7/30/2009	704	I went to Zarger road to put the spare tire on the back-hoe.	Byers tire repair	$93.82	3	$64.05
		I took the flat tire off and went to put the spare on and				
		found the spare would not fit. The rim was the wrong one				
		for our 2007 back-hoe. We were told when we bought the				
		back-hoe our old 1997 back- hoe spare would fit the new				
		2007 back-hoe but it doesn't. We took both tire and rims to				
		Byers Tire to see if they could fix us up with at least one				
		good tire and rim. Brain from Byers Tire called me and				
		said he wouldn't recommend putting the spare tire on the				
		original 2007 back-hoe rim because it was a foreign made				
		tire and the profile was about 2" higher than the original				
		Good Year tire. We decided not to put the spare tire on the				
		original rim because the height difference could possibly				
		damage the transmission or the rear differential. They were				
		able to repair the original Good Year tire temporarily by				
		patching it and putting the spare tires new tube in it.				

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EQUIPMENT NO. 16 **EQUIPMENT MAINTENANCE RECORD**

2007 John Deere 410J Back-Hoe

Date	Miles/ Hours	Description of Work Done	Item	Cost of Item	Labor (Hrs.)	Cost of Labor
		The total cost for the tire repair was $93.82. I went back				
		out to Zarger road and put the tire and rim on the back-hoe				
		so we could use it.				
		(I am now in the process of getting 2 new rear tires and				
		a spare rim.)				
8/3/2009	705	Byers Tire came to our shop and replaced both rear tires.	2 Rear tires	$1,658.00		
		(The total cost of the tires were $1,869.40)	2 Tire changes	$100.00		
		We are keeping the better rear tire for a spare.	2 Valve stems	$23.90		
			1 Tire disposal	$37.50		
			Service call	$50.00		
8/6/2009	705	We took the back-hoe to Foster Wineland for a small oil				
		leak at the transmission. I wanted it checked while it was				
		still under warranty. They gave us another back-hoe to use				
		while they were working on ours.				
8/11/2009	710	We got the back-hoe back from Foster Wineland.				
		They checked the small oil leak and thought it was grease				
		melting and dripping out of the transmission inspection				
		plate and not oil. The grease was used to install the				
		transmission when they repaired a transmission leak in				
		February 2009. The back-hoe had 577 hours on it when				
		they fixed the transmission leak in Feburary 2009. I				
		thought the grease would have been all melted by now				
		but maybe not. They told me they cleaned the				
		transmission, ran and checked the back-hoe in the shop				
		and didn't find the transmission leaking. They also ran it				
		over the road, brought it back to their shop and rechecked				

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EQUIPMENT NO. 16 **EQUIPMENT MAINTENANCE RECORD**

2007 John Deere 410J Back-Hoe

Date	Miles/ Hours	Description of Work Done	Item	Cost of Item	Labor (Hrs.)	Cost of Labor
		it for a leak and could not find one. We are going to run the				
		back-hoe and hope the transmission is ok.				
		And if not it is documented for warranty purposes.				
		(There is not a charge for the work done by Foster				
		Wineland because it is still under warranty.)				
9/28/2009		Picked up a new rear spare rim from Foster Wineland.	New rear rim	N/C		
		They gave us a new rear spare rim for the exchange of				
		the old 1997 John Deere 410E rear spare rim that didn't fit.				
		(The new rear rim would have cost $655.00)				
10/12/2009	784	Removed rear tire and rim and installed the new rim to			6	$128.10
		make sure it was the correct one. (It is the correct rim)				
		Removed front tire and rim to make sure the old 1997				
		410E backhoe rim would fit. (It didn't)				
		I took measurements and found the only difference in the				
		rims were the size of the lug holes.				
		I drilled the holes from ¾" to ⅞" and the rim fit fine.				
		I took the rear rim and a used tire to Byers Tire for them				
		to mount the tire on the rim.				
10/15/2009		Picked up the rear spare tire and rim from Byers Tire.	Byers Tire bill	$31.95		
		They mounted a used tire on the new rim.				
		(We now have front and rear spares for the 2007				
		John Deere 410J backhoe.)				

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2007 John Deere 410J Back-Hoe

Date	Miles/ Hours	Description of Work Done	Item	Cost of Item	Labor (Hrs.)	Cost of Labor
6/9/2010	1002	Removed rear flat tire and took it to Byers Tire for repair.	Byers tire repair	$63.00	4	$85.40
		Installed new fire extinguisher in cab.				
		Repaired front light assembly.				
		Picked tire up at Byers tire and put it back on the backhoe.				
8/12/2010		Bought spare teeth and pins for the rear bucket.	2 Side teeth	$18.64		
			5 Center teeth	$45.40		
			2 Bags of pins	$18.00		
9/7/2010	1131	Changed oil, oil, fuel, air, hyd., trans. and cab filters.	13 qts. oil	$33.15	10	$213.50
		Changed transmission oil.	Oil filter	$11.75		
		Greased. (Serviced)	Fuel filter	$22.75		
		Repaired loose air filter assembly.	Air filter	$32.75		
		Repaired loose hyd. hose to rear boom.	Air filter	$33.50		
		Repaired front turn signal.	Hyd. filter	$62.00		
		Repaired windshield washers.	Hyd. tank breather	$5.99		
			Trans. filter	$31.50		
			Cab filter	$15.50		
			Cab filter	$31.25		
			4 gal. hyd. oil	$40.80		
10/12/2010	1152	Service call to Angle Road for a flat tire.			1	$21.35
		I put the spare tire on the right front of the backhoe.				
		(The tire is beyond repair. Needs 2 new front tires.)				
10/15/2010	1157	Bought 2 new front tires from Byers Tire.	2 Tires	$582.00	1	$21.35
		I took the tire and rim assemblies off and took them to	2 Tire mountings	$50.00		
		Byers Tire and picked them up when they were finished.	2 Valve stems	$24.00		
			2 Tire disposals	$12.00		

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EQUIPMENT MAINTENANCE RECORD

2007 John Deere 410J Back-Hoe

Date	Miles/ Hours	Description of Work Done	Item	Cost of Item	Labor (Hrs.)	Cost of Labor
10/19/2010	1160	Tim and John from Foster Wineland came to our shop to				
		check the rear Wain Roy bucket drifting problem again.				
		(We have had this problem almost from new)				
		They came to the conclusion there was a relief valve				
		leaking internally.				
		They told me they would order a valve and schedule a time				
		to replace it.				
10/20/2010	1160	Troubleshoot loose rear bucket hand control.			5	$106.75
		Repaired control handle.				
10/25/2010	1161	Tim from Foster Wineland came to our shop and replaced				
		the relief valve to the rear Wain Roy bucket.				
		This did not fix the drifting problem. He told me he might				
		have to rebuild the bucket assemblies hyd. cylinder.				
		He said they would get back with me about what they were				
		going to do.				
11/9/2010	1168	Foster Wineland came to our shop and removed the rear				
		Wain Roy bucket assembly. They are going to rebuild the				
		hyd. cylinder. They put a John Deere bucket assembly on				
		the backhoe so we can use it.				
11/24/2010	1175	Tim from Foster Wineland came to our shop and put the				
		Wain Roy rear bucket back on the backhoe. They rebuilt				
		the buckets hyd. cylinder. There is no charge for the work				
		they have done on 10/19/2010, 10/25/2010, 11/9/2010 and				
		11/24/2010. We have had this problem since the backhoe				
		was new and the problem was never resolved.				

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2007 John Deere 410J Back-Hoe

Date	Miles/ Hours	Description of Work Done	Item	Cost of Item	Labor (Hrs.)	Cost of Labor
1/14/2011	1200	Troubleshoot strobe light not working.	Tooth shank	$33.45	10	$219.90
		Replaced strobe light.	5 Teeth	N/C		
		Cut off broken tooth shank on rear bucket.	5 Tooth pins	N/C		
		Weld new tooth shank on rear bucket.	Strobe light	$90.44		
		Replaced 5 teeth and pins on rear bucket.				
		(Teeth and pins were charged out on records 8/12/2010.				
4/14/2011	1296	Com-Pros came to our shop removed the old 2-way radio				
		and partially installed the new 1500 series digital radio.				
		(A copy of the bill is kept in the digital radio files)				
June, 2011		Received Com-Pros bill for the new 1500 series digital	Digital 2-way radio	$2,016.25		
		2-way radio, labor cost to remove the old 2-way radio and	Partial instillation	$100.00		
		partially install the new digital radio.				
		(A copy of the bills are kept in the digital radio files)				
6/28/2011	1365	Cleaned and washed loader.	Air filter (Outer)	$35.32	5	$109.95
		Greased.				
		Replaced outer air filter.				
		Repaired AM/FM radio mounting bracket.				
8/24/2011	1429	Went to Coseytown Road on a service call.			3	$65.97
		Replaced rear bucket hyd. hose fittings.				
9/14/2011		Bought spare teeth for the rear backhoe bucket.	Bucket teeth	$73.88		

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2007 John Deere 410J Back-Hoe

Date	Miles/ Hours	Description of Work Done	Item	Cost of Item	Labor (Hrs.)	Cost of Labor
10/11/2011	1492	Changed oil, oil and fuel filters.	13 qts. oil	$34.19	25	$549.75
		Greased. (Serviced)	Oil filter	$13.76		
		Replaced rear bucket hyd. hoses.	Fuel filter	$25.03		
		Fabricate and weld hyd. hose hold back ring on the rear	2 Hyd. hoses	$84.75		
		bucket.	2 gal. hyd. oil (motor oil)	$21.04		
		Repaired and weld hyd. hose bracket on the rear boom	1 gal. trans. hyd. oil	$10.50		
		assembly.	10" Pliers	$13.24		
		Fabricate and installed a tool box holding bracket inside	10" Adjustable wrench	$12.55		
		the cab.				
		Replaced the rusted up tools that were in the tool box.				
		Ran new wires and hooked up switch wire to the new				
		digital 2-way radio.				
8/16/2012	1789	Replaced all the teeth and pins on the rear bucket.	Bucket teeth	$62.94	16	$355.36
		Repaired rear boom hyd. hose bracket.	Bucket teeth pins	$42.10		
		Replaced rear boom hyd. hose hold back clamp assemblies.	Hold back assemblies	$76.80		
		Replaced worn hyd. hose on the rear boom.	Hyd. hose	$60.30		
		Removed right steering tire and rim. Took it to Byers Tire	Byers Tire repair bill	$15.00		
		for repair.	Prop pin and cable	$24.90		
		Bought and installed new front bucket prop pin and cable	Shipping	$9.00		
		assembly because the original one came out of its holding				
		bracket and was lost.				
11/21/2012	1876	Replaced strobe light bulb.	Strobe light bulb	$10.39	½	$11.10
11/30/2012	1877	Troubleshoot engine not starting.	2 Batteries	$243.90	6	$133.26
		Replaced batteries.				
		Cleaned and repaired battery cables.				
		Cleaned out battery box compartment.				

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Date	Miles/ Hours	Description of Work Done	Item	Cost of Item	Labor (Hrs.)	Cost of Labor
12/6/2012	1888	Bought 2 new rear drive tires from Byers Tire.	2 Tires	$4,320.00		
		Byers Tire came to our shop to do the work.	2 Valve Stems	$25.94		
		This time we are going to try radial tires. They cost	2 Tire changes	$110.00		
		more but are supposed to last longer.	2 Tire disposals	$75.90		
		(Byers Tire bill was $4,531.84)				
4/15/2013	1976	Changed oil, oil, air, fuel, and hyd. filters.	13 qts. oil	$38.35	32	$710.72
		Changed hyd. and fuel tank breather filters.	Oil filter	$11.70		
		Greased. (Serviced)	Air filter	$35.32		
		Changed transmission oil and filter.	Fuel filter	$21.28		
		Changed front axle and hub oils.	Hyd. filter	$52.70		
		Changed rear axle and hub oils.	Hyd. tank breather filter	$6.29		
		Troubleshoot Return to Neutral display coming on at the	Fuel tank breather filter	$2.75		
		dash panel.	Trans. filter	$26.78		
		Removed seat parts and replaced the seat lock switch.	13 gal. hyd. oil	$174.85		
		Troubleshoot engine running hot at times.	2 gal. motor oil (**Hyd. Tank**)	$23.60		
		Removed radiator grill and AC condenser.	Seat lock switch	$185.56		
		Cleaned mulch and dirt out of the front of the radiator.	Bucket tooth shank	$38.30		
		(Mulch and dirt was packed between the radiator and AC	Teeth pins	$21.05		
		condenser bad.)	Shipping	$12.50		
		Removed broken rear bucket tooth shank.				
		Weld and replaced rear bucket tooth shank.				
		Replaced rear bucket teeth pins.				
		Replaced rear bucket plate bolts.				
		Washed and cleaned back-hoe inside and out.				
9/13/2013	2127	Lowered 2 way antenna so the window can be used.			2	$44.42

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2007 John Deere 410J Back-Hoe

Date	Miles/ Hours	Description of Work Done	Item	Cost of Item	Labor (Hrs.)	Cost of Labor
9/30/2013	2148	Troubleshoot engine not starting.			2	$44.42
		Jump started the engine.				
		Checked charging system.				
		The charging system was ok.				
		(I think the 2 way radio was left on)				
3/6/2014	2259	Bought 2 new front tires from Byers Tire.	2 New tires	$1,230.00	2	$45.08
		Removed tire and rims took them to Byers Tire to have 2	2 Tire mountings	$50.00		
		new tires put on.	2 Valve stems	$25.94		
		(This is the first set of front radial tires for the back hoe.	2 Tire disposals	$8.00		
		They cost more but hopefully they will last a lot longer)				
		Byers Tire bill was $1,313.94.				
8/29/2014	2433	Changed oil, oil, fuel and air filters.	13 qts. oil	$38.35	8	$180.32
		Greased. (Serviced)	Oil filter	$14.75		
		Replaced both cab filters.	Fuel filter	$25.77		
		Repaired work light.	Air filter	$35.22		
		Replaced both wiper blades.	Cab filter	$17.11		
		(Bought 4 wiper blades 2 for spares)	Cab filter	$38.32		
		Repaired windshield washers.	4 Wiper blades	$15.00		
		Cleaned inside of cab.				
10/13/2014	2457	Replaced broken window latch assembly.	Window latch assembly	$9.86	2	$45.08
		Repaired left doors weather stripping.	Adhesive	$30.19		
2/9/2015	2523	Replaced front work light bulb.	Bulb	$5.49	9	$206.91
		Straighten and repaired bent up rear finishing bucket.				

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2007 John Deere 410J Back-Hoe

Date	Miles/ Hours	Description of Work Done	Item	Cost of Item	Labor (Hrs.)	Cost of Labor
3/31/2015	2566	Removed damaged right outrigger protective guard.	Paint and primer	$33.36	17	
		Straighten damaged outrigger guard.	Filler and primer	$50.47		
		Prep, prime, paint and installed the right outrigger guard.	Clamps	$14.49		
		Made, fabricate and installed support brackets to replace	Nuts, bolts and etc.	$15.78		
		the bent up and missing ones on both left and right				
		out rigger protective guards.				
7/14/2015		Bought spare rear bucket teeth and pins from Foster	7 Teeth	$81.97		
		Wineland.	15 Pins	$33.60		
10/22/2015	2670	Removed and repaired seized and rusted brake pedal lock			6	$137.94
		assembly.				
		Repaired door lock assembly.				
4/29/2016	2816	Removed rubber floor mats in cab.			8	$187.60
		Wire brushed rusted floor at door openings.				
		Prep, primed and painted rusted areas.				
		Drill and tap broken floor mat bolts.				
		Cleaned inside of cab.				
5/27/2016	2828	AC was not cooling.	2 Cans freon	$29.90	3	$70.35
		Put 2 cans of freon in it.				
		Repaired work light wiring.				
7/8/2016		Bought a tech manual from Foster Wineland.	Manual	$137.96		
		Bought 5 cans graphite lube.	5 Cans graphite lube	$44.45		

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2007 John Deere 410J Back-Hoe

Date	Miles/ Hours	Description of Work Done	Item	Cost of Item	Labor (Hrs.)	Cost of Labor
7/26/2016	2845	Troubleshoot no A/C.	A/C evaporator	$378.13	40	$938.00
		Found small leak at evaporator and dryer hoses.	A/C evaporator line	$90.90		
		Replaced evaporator assembly.	A/C dryer	$101.96		
		Replaced evaporator lines.	A/C hose/line	$131.55		
		Replaced dryer.	A/C hose/line	$179.93		
		Replaced 5 A/C hoses/lines.	A/C hose/line	$106.81		
		(I had to cut off 4 A/C hoses/lines due to rust)	A/C hose/line	$60.97		
		Replaced 13 O-rings.	A/C hose/line	$86.09		
		Installed compressor oil.	13 O-rings	$16.60		
		Vacuum and charged A/C.	A/C compressor oil	$9.36		
		I had to remove the seat, floor mats and dash panels to				
		replaced the evaporator assembly.				
		Drill, tap and replaced broken bolts to the evaporator cover				
		panel.				
		I had to remove the floor access panels to replace the A/C				
		hoses/lines.				
		Drill, tap and replaced broken floor access panel bolts.				
		Repaired bent up front grill.				
		Repaired and straighten the stop for the hyd. lift cylinder.				
9/27/2016	2890	A hyd. hose started leaking at the job site.	Hyd. hose	$41.00	2	$46.90
		The road crew guys replaced the hyd. hose.				
		(They working at the Greencastle Antrim School)				

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2007 John Deere 410J Back-Hoe

Date	Miles/ Hours	Description of Work Done	Item	Cost of Item	Labor (Hrs.)	Cost of Labor
2/20/2017	2975	Tom Walburn done the following work while Dave was	13 qts. oil	$41.08	25	$457.75
		off due to arm surgery.	Oil filter	$14.85		
		Changed oil, oil, fuel, air and hyd. filters.	Fuel filter	$23.17		
		Greased. (Serviced)	Fuel breather filter	$2.81		
		Changed transmission oil and filter.	Trans. filter	$40.61		
		Changed hyd. oil in reservoir. (**Takes Motor oil)**	Air filter (Inner)	$23.57		
		Replaced fresh air cab filter.	Air filter (Outer)	$37.68		
		Replaced recirculation cab filter.	Hyd. filter	$75.67		
		Repaired license plate light wiring.	Hyd. vent filter	$5.35		
			9 gal. motor oil (**Hyd. Tank**)	$113.76		
			4 gal. hyd. oil (**Trans.**)	$60.12		
			Cab filter	$38.32		
			Cab filter	$15.29		
5/1/2017	3016	Changed oil in front axle and hubs.	7 gal. Hyd. oil	$105.21	8	$191.36
		Changed oil in rear axle and hubs.	6 gal. Anti-freeze	$81.42		
		Changed anti-freeze.	Coolant conditioner	$8.79		
		Checked and aired tires.				
		(Front and rear axles and hubs takes hyd. oil)				
8/3/2018	3252	Troubleshoot noise in engine.	Reman alternator	$278.00	18	$439.20
		Replaced alternator with a remanufactured one.	Fan belt	$49.67		
		Replaced fan belt.	Belt tensioner	$129.26		
		Replaced fan belt tensioner.	Reman water pump	$223.66		
		Replaced water pump with a remanufactured one.	Water pump gasket	$16.96		
		Replaced water pump reflector plate.	Water pump reflector	$70.18		
		Replaced water pump coolant tube and seals.	Water pump tube	$59.30		
		Replaced thermostat and gasket.	Tube seals	$17.34		
		Removed front radiator shield and cleaned debris from the	Thermostat	$14.33		

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EQUIPMENT NO. 16 **EQUIPMENT MAINTENANCE RECORD**

2007 John Deere 410J Back-Hoe

Date	Miles/ Hours	Description of Work Done	Item	Cost of Item	Labor (Hrs.)	Cost of Labor
		radiator compartment.	Thermostat gasket	$2.10		
		Repaired rear bucket pin assembly.	O-ring	$2.33		
		Aired tires.	Shipping	$12.00		
		(Alternator and water pump prices are with $50.00 credits				
		taken off)				
9/13/2019	3413	Troubleshoot backhoe not starting.	2 Batteries	$262.64	4	$99.56
		Replaced both batteries.				
		Cleaned and repaired battery cables.				
		Repaired battery hold downs brackets.				
1/13/2020	3433	Replaced left drivers door hyd. cylinder.	Cylinder	$55.98	1	$25.39
2/7/2020	3448	Changed oil, oil, fuel and outer air filters.	13 qts. oil	$41.08	28	$710.92
		Greased. (Serviced)	Oil filter	$14.83		
		Troubleshoot no A/C.	Fuel filter	$21.44		
		Replaced A/C condenser and hardware.	Air filter (Outer)	$40.48		
		Drilled and tapped broken A/C condenser mounting bolts.	A/C condenser	$968.51		
		Replaced A/C dryer.	Condenser hardware	$101.56		
		Replaced A/C condenser/dryer hose.	A/C dryer	$104.19		
		Vacuum and charged A/C.	A/C o-rings	$11.37		
		Repaired front grill assembly.	A/C hose	$79.04		
			A/C o-rings	$8.51		
			A/C oil	$9.36		
			Shipping	$14.00		
5/8/2020	3497	Troubleshoot no strobe light.	Strobe bulb	$11.30	1	$25.39
		Replaced strobe light bulb.				

EQUIPMENT NO. 16 **EQUIPMENT MAINTENANCE RECORD**

2007 John Deere 410J Back-Hoe

Date	Miles/ Hours	Description of Work Done	Item	Cost of Item	Labor (Hrs.)	Cost of Labor
6/24/2020	3529	Byers Tire came to our shop and repaired the RR tire.	Byers Tire bill	$133.25		
		Byers Tire bill was $133.25.				
9/28/2020	3573	Troubleshoot engine not starting.	1 Battery	$137.19	3	$76.17
		Charged the batteries and checked them.	1 Battery **(Warranty)**	No charge		
		Came to the conclusion 1 of the 2 batteries is bad.				
		Replaced both batteries.				
		We bought 1 battery and warranty replaced the other				
		battery at no cost.				
9/22/2021	3767	Byers Tire came to our shop to replace the rear tires on	Byers Tire bill	$285.00		
		Tractor #40. While they were here I had them check the				
		slow leaks we had on the rear back hoe tires.				
		They put 2 radial tubes in the rear back hoe tires.				
		(Byers Tire bill was $285.00)				
11/15/2021	3776	Greased Back Hoe.	Outer air filter	$42.42	19	$489.63
		Replaced outer air filter.	Cab filter	$14.81		
		Checked and aired tires.	Cab filter	$32.51		
		Checked fluid levels.	**Steering Column Hyd. cylinder**	$179.41		
		Checked lights.	A/C Temp. switch	$57.99		
		Troubleshoot oil leak at steering column.	A/C Pressure switch	$55.10		
		Replaced steering column hyd. cylinder.				
		Troubleshoot A/C freezing up at times this summer.				
		Replaced A/C temperature switch.				
		Replaced cab filters.				
		Bought an A/C pressure switch but did not install it. I want				
		to see if the temperature switch and cab filters will fix the				
		A/C when we us it this coming summer.				

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EQUIPMENT NO. 16

EQUIPMENT MAINTENANCE RECORD

2007 John Deere 410J Back-Hoe

Date	Miles/ Hours	Description of Work Done	Item	Cost of Item	Labor (Hrs.)	Cost of Labor
		Washed and cleaned Back Hoe.				
		Got the Back Hoe ready for winter use.				
7/15/2022	3827	Replaced left and right out rigger pads.	4 Pads/bolts/washers	$296.40	4	$106.12
		Checked and aired tires.				
		Checked lights.				
		Checked fluid levels.				
		Cleaned rear window tracks.				
2/8/2023	3918	Changed oil, oil, fuel, hyd. and outer air filters.	13 qts. oil	$41.08	24	$763.20
		Greased. (Serviced)	Oil filter	$21.72		
		Changed transmission oil and filter.	Fuel filter	$29.03		
		Replaced first aid kit that is in the cab.	Fuel tank breather filter	$4.90		
		Troubleshoot hyd. leak at the oil filter assembly.	Hyd. filter	$94.10		
		Check and tighten loose hyd. hose connections and clamps.	Hyd. tank breather filter	$6.45		
		Washed and cleaned back hoe.	2 Gallons hyd. oil	$25.28		
		(Hyd. oil takes motor oil)	Outer air filter	$54.90		
			Trans. filter	$74.56		
			Hyd. trans. oil	$30.06		
			First aid kit.	$39.37		
10/13/2023	4075	Troubleshoot horn not working.			3	$95.40
		Repaired horn wiring.				
		Checked and topped off fluid levels.				
11/28/2023	4107	Hose leaking for extend boom				
		Removed hose, mid American hydraulics made new one	1 hose	$52.75	2	
		Replaced hose and checked fluid level				
		Greased boom and bucket				

EQUIPMENT NO. 16

EQUIPMENT MAINTENANCE RECORD

2007 John Deere 410J Back-Hoe

Date	Miles/ Hours	Description of Work Done	Item	Cost of Item	Labor (Hrs.)	Cost of Labor
12/7/2023	4126	Left rear tire was flat				
		Byers tire came to shop and repaired				
12/28/2023		Picked up couplings from foster wineland for braker	4- quick couplings	$795.55	4	$92.00
		Installed on backhoe and capped off lines for swivel bucket				
1/8/2024		Added a NPK hammer and 2ft bucket				
		NPK PH-4 SN:148051				
		Top cap part# L2260 SN:MRN66104				
		Quick coupler- At336316				
		1 case of breaker grease with grease gun				
		Quick couplers	4- 2 male- 2-female	$795.55		
1/12/2024	4154	Busted rear window out of backhoe			3	$$71.07
		Went to foster wineland got replacement window				
		Rear window	Top glass	$154.70		
		Pin and washer for bucket	T185832	$277.98		
		Keys	10 keys	$30.30		
1/18/2024		Got new rear window seal for window	AT532803	$42.18	1	$23.69
3/11/2024	4201	Bcakhoe blew 2 lines while using the breaker				
		Had mid America hyd. make new hoses and installed				
3/20/2024		Got service kit from foster wineland on filter sale	Complete service kit	$304.92		
4/5/2024	4226	Added Antifreeze	1 Quart antifreeze			

EQUIPMENT NO. 16

EQUIPMENT MAINTENANCE RECORD

2007 John Deere 410J Back-Hoe

Date	Miles/ Hours	Description of Work Done	Item	Cost of Item	Labor (Hrs.)	Cost of Labor
4/5/2024	4226	Fab plexi glass holder for rear of backhoe	Metal and bolts	$57.00	2	
		Used while breaking rock to protect windows				
4/24/2024	4227	Serviced backhoe	$304.92 ser. Kit 3/20/24		4	
		Oil filter				
		Fuel filter				
		Fuel breather				
		Air filter (inner and outer)				
		HDY. Tank breather				
		Cab filter (inner and outer)				
		-backhoe is showing TEMP SEN FAULT				
		-replaced temp sensor $37.24				
		-didn’t fix problem talked to deere it is an ECU issue				
		They are coming to replace				