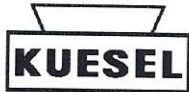


# Maintenance Record

## DE8128



SOIL STABILIZATION  
HEAVY HIGHWAY  
GRADING

## Kuesel Excavating Co Inc

# Equipment Maintenance

### Equipment Maintenance

with Notes

Equipment# 4 to 4

Date	Equipment#	Description	Equipment Hours Worked	Schedule Hrs/MIs
	4	963-2 CAT Hili	6,110.00	
01/03/2003		repair & fuel/ oil filters	13700	13900
02/17/2003		repair		
		replaced steel plate on top of equalizer pad ( right ) / find hydraulic leak.		
03/24/2003		repair & fuel/ oil filters	13830	14030
		500 hour service / replaced suction & return hoses on hydraulic tank.		
03/31/2003		repair		
		replaced transmission cooler - faibik - used.		
05/01/2003		repair		
		replaced right battery - wholesale / replaced temperature sending unit and bucket leveler.		
05/24/2003		repair		
		replaced hydraulic selector valve.		
06/24/2003		repair & fuel/ oil filters	14115	14315
		cleaned out radiator / new bucket teeth.		
07/14/2004		repair		
		replaced muffler		
07/21/2004		repair		
		replaced hydraulic pump		
08/06/2004		repair		
		shortened heater hoses / replaced 1 heater valve and underspeed linkage.		
10/08/2004		fuel / oil / trans / hydr filters	15825	16025
		1000 hour service		
10/15/2004		repair		
		replaced 2 broken bolts in transmission and repaired mounts.		
12/22/2004		repair		
		replaced left battery		
01/06/2005		fuel / oil filters	16075	16275
01/24/2005		repair		
		heater motor - left side		
04/18/2005		fuel / oil / trans / hydr filters	16335	16535
		500 hour service		
06/24/2005		fuel / oil filters	16530	16730
07/26/2005		repair		
		replaced radiator and water pump - radiator was used and redone by SS Radiator.		
11/28/2005		repair		
		replaced right side battery.		
12/05/2005		fuel / oil filters		
12/12/2005		repair		
		replaced left side battery.		
01/06/2006		fuel / oil filters	17206	17406

# Equipment Maintenance

06/06/19

Continued...

Date	Equipment#	Description	Equipment Hours Worked	Schedule Hrs/MIs
02/07/2006		repair		
		replaced bearings and shaft in left foot pedal		
03/13/2006		500 hour service	17548	17748
		500 hour service---replaced oil filter, fuel filter, 2-hydraulic filters, transmission filter, and replaced primary air filter		
05/23/2006		repair	17892	17748
		rebuilt injection pump (archway diesel ) replaced bucket teeth---replaced alternator pulley---replaced fan belts		
06/26/2006		service	18076	18276
		replaced oil and fuel filter		
08/29/2006		repair		
		replaced shaft and bearings on steering linkage		
10/17/2006		1000 hour service	18625	18825
		replaced oil filter--fuel filter--primary air filter--transmission filter and 2- hydraulic filters		
		replaced 10wt in transmission and hydraulic tank		
		replaced 50wt in the final drives		
01/08/2007		service	18885	19085
		replaced oil filter and fuel filter		
01/11/2007		repair	18905	19085
		replaced teeth on bucket--replaced transmission filter---replaced wear pads---replaced oil cover shield		
01/17/2007		batteries	18975	19085
		replaced both batteries ( fabick )		
03/14/2007		repair		
		rebuilt left lift cylinder----weld bucket		
04/05/2007		500 hour service	19140	19340
		replaced oil filter--fuel filter--transmission filter--primary air filter and 2-hydraulic filters		
05/25/2007		rebuilt engine	19250	19500
		replaced engine with a rebuilt engine from Engine Rebuilders		
		replaced starter		
		replaced turbo hose and all fuel lines		
		replaced radiator hoses		
		replaced sprocket segments		
		replaced fan pulley and all fan bearings		
		* front seal leaking--contacted engine rebuilders		
07/06/2007		service	19400	19600
		replaced oil filter and fuel filter		
		replaced transmission filter and 10wt in transmission compartment and splitter box		
		replaced relief valve and temperature sending unit for the cooling system		
09/11/2007		repair		
		replaced transmission filter		
10/04/2007		1000 hour service	19600	19800
		replaced oil filter--fuel filter--primary and secondary air filters--2- hydraulic filters--and transmission filter		
		replaced 10wt in hydraulic and transmission compartments		
		replaced 10wt in splitter box		
		replaced 50wt in final drives		
		replaced intake hose from air cleaner to turbo		

## Equipment Maintenance

06/06/19

Continued...

Date	Equipment#	Description	Equipment Hours Worked	Schedule Hrs/MIs
10/11/2007		repair	19600	19800
		replaced drive motor seals--right and left side		
		replaced right and left equalizer pads----replaced right side housing		
		replaced 4 drive motor hoses and seals		
		replaced transmission breather filter		
01/10/2008		service	19730	19930
		replaced oil filter--fuel filter and primary air filter		
04/09/2008		500 hour service	19856	20056
		replaced oil filter--fuel filter--transmission filter--primary air filter and 2- hydraulic filters		
06/03/2008		repair	19949	20056
		replaced hydraulic oil cooler		
06/12/2008		repair	20000	20056
		resealed splitter box and replaced bearings and seals on the center gear		
		resealed left drive motor		
		replaced hose on transmission oil cooler		
06/26/2008		service	20000	20200
		replaced oil filter and fuel filter		
10/01/2008		1000 hour service	20200	20200
		replaced oil filter--fuel filter--transmission filter---2- hydraulic filters---primary and secondary air filters		
		replaced 10wt in hydraulic and transmission compartments		
		replaced 50wt in final drive compartments		
10/01/2008		repair	20200	20200
		replaced head gasket---resealed right side drive motor		
10/01/2008		water pump	20200	20200
		replaced water pump and thermostat		
03/20/2009		500 hour service	20260	20460
		replaced oil filter and fuel filter--2- hydraulic filter and transmission filter		
04/01/2009		rebuilt engine	20300	20460
		rebuilt engine from engine rebuilders		
		sent other engine back for possible warranty work		
07/09/2009		service	20460	20660
		replaced oil filter and fuel filter		
07/29/2009		service	20620	20820
		replaced oil filter and fuel filter		
09/08/2009		service	20820	21000
		replaced oil filter--fuel filter--primary air filter		
10/01/2009		1000 hour service	200	400
		replaced oil filter--fuel filter--transmission filter--2- hydraulic filters		
		replaced 50wt in right and left final drive compartments		
		replaced approx. 38 gallons of 10wt in hydraulic/transmission compartment		
10/01/2009		radiator	224	400
		replaced radiator with a rebuilt one from S&S radiator		
10/02/2009		muffler	224	400
		replaced muffler		
11/04/2009		service	485	700
		replaced oil filter--fuel filter and primary air filter		



## Equipment Maintenance

06/06/19

Continued...

Date	Equipment#	Description	Equipment Hours Worked	Schedule Hrs/MIs
01/19/2010		service	700	900
		replaced oil filter--fuel filter--primary air filter		
01/19/2010		undercarriage	700	900
		replaced rails--rollers--pads--sprocket segments--replaced left side idler with complete one from Fabick--replaced right side idler with new shell and reused shaft		
		rebuilt both bucket lift cylinders		
		replaced right and left equalizer bar pads		
		adjusted underspeed linkage		
		welded new corner shanks--side cutters and corner bits on bucket		
		painted		
01/27/2010		repair	700	900
		resealed splitter box		
		replaced pilot pump		
		replaced bearings in center shaft		
02/25/2010		batteries	700	900
		replaced 2- batteries--wholesale		
05/11/2010		lower bucket pins	850	900
		replaced right and left lower bucket pins		
05/11/2010		service	850	1050
		replaced oil filter and fuel filter		
09/20/2010		1000 hour service	1050	1250
		replaced oil filter--fuel filter---2- hydraulic filters--transmission filter and primary air filter		
		replaced 10wt in hydraulic compartment--transmission compartment and splitter box compartment		
		replaced 50wt in right and left final drive compartments		
09/23/2010		repair	1060	1250
		replaced splitter box dipstick---fan belts and turbo gasket		
02/11/2011		repair	1210	1450
		replaced front engine oil seal----resealed left side trunnion--replaced top carrier roller on left side----replaced seals and bushings in the steering levers		
02/11/2011		service	1210	1450
		replaced oil filter and fuel filter		
05/17/2011		service	1425	1675
		replaced oil filter and fuel filter		
10/07/2011		1000 hour service	1600	1800
		replaced oil filter--fuel filter--transmission filter and 2- hydraulic filters		
		replaced 10wt in hydraulic--transmission and splitter box compartments		
		replaced 50wt in right and left final drive compartments		
01/30/2012		service	1725	1925
		replaced oil filter--fuel filter and transmission filter		
02/02/2012		repair	1725	1925
		resealed tilt cylinder---reseal drive coupler and replaced transmission temperature sender		
06/25/2012		turbo	1810	1925
		replaced turbo		
06/28/2012		service	1820	2020
		replaced oil filter--fuel filter---primary air filter		

# Equipment Maintenance

06/06/19

Continued...

Date	Equipment#	Description	Equipment Hours Worked	Schedule Hrs/MIs
09/26/2012		500 hour service	1920	2120
05/23/2019		replaced oil filter--fuel filter--2- hydraulic filters--transmission filter and primary air filter service		
10/30/2012		sample for Dan batteries	2050	2120
		replaced both batteries---Wholesale		
		replaced blower motor		
01/25/2013		rebuilt engine	2238	2450
		*****engine black stacking and using oil---used in Code L at Shilo		
		replaced turbo and exhaust manifold--radiator hoses--motor mounts--exhaust pipe		
		engine invoice # 16224--engine rebuilder		
11/22/2013		*****turbo came off the spare engine service	2600	2800
		replaced oil filter--fuel filter and primary air filter		
01/20/2014		1000 hour service	2800	3000
		replaced oil filter--fuel filter---2- hydraulic filters--transmission filter and primary air filter		
		replaced 10wt in hydraulic compartment--transmission compartment and splitter box compartment		
		replaced 50wt in right and left final drive compartments----Walter		
01/23/2014		rebuilt engine	2800	3000
		machine came back from Brookfield---5- gallons low on antifreeze--water/antifreeze was in the cylinders---removed engine		
		--replaced with a stock engine from E-79		
03/10/2014		service	2850	3050
		replaced oil filter and fuel filter		
07/21/2014		sprocket segments		
		replaced sprocket segments---flipped cutting edges		
08/25/2014		500 hour service	3030	3230
		replaced oil filter--fuel filter--2- hydraulic filters and transmission filter		
01/09/2015		service	3260	3500
		replaced oil filter--fuel filter and primary air filter		
03/20/2015		radiator	3350	3500
		replaced radiator		
03/20/2015		muffler	3355	3500
		replaced muffler		
06/27/2015		1000 hour service	3810	
10/06/2015		500 hour service	4367	4867
		engine oil and oil , fuel and outer air filters		
01/25/2016		Repair	4664	
		Replace 2 batteries		

# Equipment Maintenance

06/06/19

Continued...

Date	Equipment#	Description	Equipment Hours Worked	Schedule Hrs/MIs
02/23/2016		repair pulled and replaced radiator. took old one to S&S radiator for rebuilt to keep as spare	4678	
07/07/2016		500 hour service Jerry  Oil, fuel, air filters Change engine oil Replace bucket kickout wiring, repair mounting plate for hydraulic valve	4846	5350
08/08/2016		repair R&R drive hose  R&R sprockets (8/10/16)		
08/17/2016		1000 hr service 1000 hr service  Change engine oil oil filters fuel filters hydraulic filters x2 transmission R&R final drives 50 wt 10 gallons	4960	5500
10/25/2016		Repair R&R broken track guard and bolts Repair door latches Swap cabs repair hydraulic leaks repair wear plates on blade		
03/04/2017		1500 hr service 500 hr service by Dane Pogrelis  Changed engine oil and filters Fuel filters Air filter	5450	5950
05/17/2017		Dane noticed crack in exhaust manifold and undercarriage worn Repair Repair bucket leveler R&R bucket leveler coil	5563	5950

## Equipment Maintenance

06/06/19

Continued...

Date	Equipment#	Description	Equipment Hours Worked	Schedule Hrs/MIs
09/25/2017		Service		
		Check Loose Tracks		
		Undercarriage Shot		
11/20/2017		Undercarriage/2000 hr service	5900	6500
		Walter		
		Replace rails		
		Rollers		
		Sprocket segments		
		Pads		
		Top carrier rollers		
		Front idlers		
		Bearings		
		Seals on front shoes		
		All wear strips		
		Weld/build up back shoes		
		Replace track adjusters		
		Replace front supports on both sides		
		Replace pin and bearing on front beam		
		Replace all seals and bearings on both pivot shafts		
		Replace all bearing seals on both final drives		
		Repair engine leaks		
		2000 hr service		
		Change all oil and all filters		
06/19/2018		Engine	6180	
		Start disassemble of engine		
		Replace right gear bearings		
		Assemble rear gear section		
		New long block from Fabick		
		Install injection pump		
		Install external components on engine		
		Install engine		
		R&R cooler pack		
		Fill all fluids		
		Prime and start machine		
		Remove oil pan		
		Clean stiffener plate		
		Install oil pan and fill oil		
		Ren and check		
		Install belly pans		
		Lower cab		
		Install axles		
		Fill final drive oil		
10/03/2018		paint		
		Heavy Equipment painted and decaled--\$ 2500		



## Equipment Maintenance

06/06/19

Continued...

Date	Equipment#	Description	Equipment Hours Worked	Schedule Hrs/MIs
05/23/2019		repair switch or transfer undercarriage from E-4 to E-6. Labor to switch undercarriages	6341	6750
		Finish installing tracks, repace one cyl. 5.0 77.20 386.00		
		Going back together with E-4 2.2 77.20 169.84		
		Pulling tracks 1.0 77.20 77.20		
		Remove track roller bolts 1.0 77.20 77.20		
		Transferring parts from one to the other 4.0 77.20 308.80		
		Undercarriage removing 5.8 77.20 447.76		
		undercarriage work switching from E-4 t 5.0 77.20 386.00		