

Equipment Number	Component Number	Service Type	Description	M S	Current Hours	Interval Hours	Hours Since Last Completed	Overdue Hours	Projected Due Date	Assigned WO	Last WO	Last WO Compl Date
Dozer, D8T												
1610211					Current Meter: 14,649.00		Date of Last Reading: 07/19/19					
					Lifetime Meter: 14,649.00		Operating Hrs/Day: 5					
1610211-0101		0101-01	PM	01	14,649.00	500.00	225.00	275.00-	08/24/19	546045		06/14/19
1610211-0101		0101-11	PM Level 1	01	14,649.00	500.00	494.00	6.00-	07/26/19	536035		05/11/19
1610211-0101		0101-12	PM Level 2	01	14,649.00	1,000.00	494.00	506.00-	11/03/19	536035		05/11/19
1610211-0101		0101-13	PM Level 3	01	14,649.00	2,000.00	494.00	1,506.00-	05/21/20	536035		05/11/19
1610211-0101		0101-14	PM Level 4	01	14,649.00	5,000.00	494.00	4,506.00-	01/11/22	536035		05/11/19
1610211-0201		0201-21	Valve/Injector Adjust	01	14,649.00	2,000.00	734.00	1,266.00-	04/03/20	536033		04/06/19
1610211-0201		0201-99	X, Eng	01	14,649.00	14,500.00	14,649.00	149.00	07/24/19			
1610211-0401		0401-99	X, Trans	01	14,649.00	12,000.00	8,266.00	3,734.00-	08/09/21	271383		09/27/14
1610211-0411		0411-99	X, Conv	01	14,649.00	12,000.00	8,266.00	3,734.00-	08/09/21	271391		09/27/14
1610211-0441		0441-99	X, L Final Drive	01	14,649.00	15,000.00	3,316.00	11,684.00-	12/16/25	450721		11/09/17
1610211-0442		0442-99	X, R Final Drive	01	14,649.00	15,000.00	3,316.00	11,684.00-	12/16/25	450720		11/09/17
1610211-0501		0501-99	X, Tracks	01	14,649.00	3,600.00	3,316.00	284.00-	09/19/19	447850		11/09/17
1610211-0801		0801-01	Hydraulic #1, Pump	01	14,649.00	12,000.00	14,649.00	2,649.00	07/24/19			

Unit Number	Description	Order Number	Complete Date	Completed Hour Meter	Labor Cost	Labor Hours	Total Cost
1610211-0101	FIRST ENGINE OIL CHANGE	159130	9/18/2012		59.82	2	59.82
1610211-0101	PM	166856	10/11/2012	335.7	179.35	7	728.99
1610211-0805	BLADE TILT LINES BENT	174992	12/28/2012	517			943.53
1610211-0103	STANDING WORK ORDER FOR D8T	156047	1/2/2013	877	2,931.44	103.5	4,560.18
1610211-0101	PM / 1000 HOUR	179068	1/14/2013		358.92	12	1,039.16
1610211-0805	DUMP CYL ON BLADE LEAKS DOWN	179958	1/14/2013	946			236.44
1610211-0401	POWER TRAIN LEAKING (WARRANTY)	182054	1/22/2013	949			
1610211-1001	CAB MIRROR BROKEN	181883	1/28/2013	859	29.91	1	68.99
1610211-1001	REAR WINDOW LEAKING	185208	3/23/2013	817			416.52
1610211-0201	CHECK FOR OIL CONSUMPTION	186979	3/23/2013	1250			
1610211-0201	COOLANT LEAK WC	189159	3/24/2013	1414	29.91	1	29.91
1610211-1098	WINCH NOT WORKING	189403	3/24/2013	1591	247.17	7	441.91
1610211-0101	500 HOUR PM	187258	4/3/2013	1414	221.76	7	670.61
1610211-0805	TRANS FILTER LEAK	183323	4/8/2013	1496			
1610211-0201	REGEN CODES	185376	4/20/2013	1414			194.74
1610211-1098	ADD HOSE TO FUEL VENT	190579	4/20/2013	1414			32.22
1610211-1098	FUEL SENSOR CODE	192254	4/20/2013	1591			
1610211-0501	SPROCKET SEGMENTS BAD	194885	5/7/2013	1591	260.58	8.5	3,550.61
1610211-0501	LEFT TRACK PIN & BUSHING TURN	195736	5/17/2013	1924	340.25	10.5	4,396.62
1610211-0501	RIGHT TRACK PIN & BUSHING TURN	195737	5/17/2013	1924	299.51	9.5	4,155.58
1610211-0805	HYD LEAK IN BELLY PAN	196546	5/20/2013	1924	110.88	3.5	305.62
1610211-1098	CHANGE OUT EVAC FITTING	193450	6/7/2013	1924			140.88
1610211-0901	PLATE COVERING LINES ON BLADE	194250	6/7/2013	1691	15.32	1	15.32
1610211-0803	RIGHT LIFT CYL LEAKING	194753	6/7/2013	1924			2,402.01
1610211-0803	LEFT LIFT CYL LEAKING	194754	6/7/2013	1722			-4.81
1610211-0301	WATER PUMP LEAKING	195247	6/7/2013	1722			194.74
1610211-0101	2,000 HOUR PM	197658	6/7/2013	1753	461.54	12	905.31
1610211-0201	REGEN CODES	199915	6/18/2013	1924			194.74
1610211-1098	WINCH LINE NEEDS REPLACING	198517	7/7/2013	5747	264.06	8	1,141.46
1610211-1001	A/C NOT COOLING	201857	7/7/2013	2176	547.12	16.5	741.86
1610211-0101	BI WEEKLY PM	205166	7/28/2013	2033	31.68	1	31.68
1610211-1098	ACCIDENT DAMAGE	201632	8/4/2013	2418			
1610211-0101	500 HR PM	205702	8/4/2013	2176	348.48	11	923.24
1610211-1098	FUEL CAP BAD	205914	8/4/2013	2342	15.84	0.5	126.63
1610211-1098	NEEDS NEW WICH LINE	206587	8/29/2013	2418	183.03	4.5	1,060.43
1610211-1098	LOWER LFT DOOR WIPER MISSING	210013	9/28/2013	2418	38.43	1	73.95
1610211-0101	1000 HOUR PM	213498	9/28/2013	2550	453.34	12.5	1,138.18

1610211-0901	HAND RAILS ON PUSH ARM BENT	213639	9/28/2013	3751	106.18	2.5	977.16
1610211-0101	EOC. (BAD SAMPLE)	215516	10/4/2013	2888	59.01	2	154.29
1610211-0701	FRONT LIGHTS INOP	218006	10/21/2013	2888	31.68	1	31.68
1610211-0901	HANDLE ON RIGHT PUSH ARM	217779	10/22/2013	2888	31.68	1	286.76
1610211-1098	NO WINCH CABLE ON EQUIP	213640	11/2/2013	3227	36.27	1	36.27
1610211-0901	REPLACE PINS AND CONNECTORS	217972	11/2/2013	3388	322.11	10	3,331.80
1610211-0901	LEFT HAND RAIL BENT	220742	11/14/2013	2943	63.36	2	63.36
1610211-1098	A/C PROBLEMS	214576	11/20/2013	3388	63.36	2	63.36
1610211-0701	REPLACE HEADLIGHT SWITCH	216740	11/20/2013	3117	67.76	1.5	76.73
1610211-0901	BOLTS BROKEN ON HOSE GUARD ON	220426	11/20/2013	3227			
1610211-0101	500 HR PM	221573	11/20/2013	3103	633.6	20	1,206.28
1610211-0901	REPLACE HAND RAIL	221985	11/20/2013	3388	15.84	0.5	291.32
1610211-0805	BAD OIL SAMPLE 11/27/13	224341	12/4/2013	3332	126.72	4	300.5
1610211-0501	SPROCKET SEGMENT BAD	224166	12/5/2013	3378	503.76	17.5	2,441.74
1610211-0501	FULL UNDERCARRIAGE	226946	12/21/2013	3388	2,571.33	83.5	46,133.67
1610211-0103	SWO- 1610211 (2013)	178245	1/3/2014	3513	939.48	28.75	1,633.46
1610211-1098	BI-WEEKLY 2013	207490	1/6/2014	3500	54.35	1.75	54.35
1610211-0901	REPLACE PUSH ARM CONNECTORS	230908	1/19/2014	3659	326.04	10.5	4,689.20
1610211-1098	FIRE DETECTION LIGHT ON	234163	1/29/2014	5264	67.66	2	67.66
1610211-0201	ADJUST VALVES AND INJECTORS	234380	2/4/2014	4702	221.76	7	352.44
1610211-0101	4000 HR PM	230661	2/5/2014	0	1,074.52	36.5	1,859.98
1610211-1098	SHARP SHOOTER STORAGE	234929	2/5/2014	4089	63.36	2	63.36
1610211-0301	COOLANT LEAK	236031	2/27/2014	3933	351.71	11	377.55
1610211-0301	EGR COOLER LEAKING	238849	2/27/2014	4004	275.73	8.5	2,994.69
1610211-0701	CHECK BACKUP ALARM FOR NOISE L	241211	3/12/2014	4089	33.83	1	33.83
1610211-1098	WIPER BLADE BAD LEFT DOOR	241939	3/24/2014	4089	50.75	1.5	68.52
1610211-0101	500 HR PM	243564	4/3/2014	4702	589.8	20	1,211.80
1610211-1098	WINCH LINE BROKEN	229546	4/14/2014	4245	16.92	0.5	3,093.17
1610211-0201	RESEAL CENTER VALVE COVER	235476	4/14/2014	4245	33.83	1	77.39
1610211-0901	ACCIDENT DAMAGE	243952	4/14/2014	4382	150.09	4.5	150.09
1610211-0805	HYD HOSE CRACKED	245060	4/14/2014	4509	282.72	9	1,936.23
1610211-0201	CHANGE CRANKCASE FILTER	246399	4/14/2014	4613	50.75	1.5	93.34
1610211-0701	REPLACE MASTER SWITCH HANDLE	247929	4/30/2014	4702			24
1610211-0701	REPLACE MASTERSWITCH	248199	4/30/2014	4702	73.7	2.5	166.06
1610211-1001	LOW PSI A/C SWITCH BAD	246783	5/5/2014	4702	36.93	1	250.16
1610211-0101	MECHANICAL PM MAY 2014	248947	5/7/2014	5747	210.07	6.5	210.07
1610211-0201	OIL DIPSTICK	249006	5/7/2014	4950	36.27	1	185.53
1610211-0701	FUEL TEMP SENSOR ERROR	251678	5/11/2014	4879	36.93	1	36.93

1610211-0201	REPLACE DPF FILTER	251665	5/23/2014	4879	55.4	1.5	5,711.63
1610211-0101	ENGINE OIL CHANGE	253496	5/23/2014	4989	64.24	2	98.93
1610211-1001	GURARD ON ROCKER WITCH BROKE	253438	5/29/2014	4979	70.99	2	81.51
1610211-0103	BI-WEEKLY PM - 2014	229383	6/6/2014	5106	145.08	4	145.08
1610211-0901	REPLACE HAND RAILS	254399	6/6/2014	5004	107.18	3	1,062.11
1610211-0201	REPLACE ARD SPARK PLUG AND PUM	255638	6/10/2014	5422	73.86	2	385.78
1610211-0101	LEVEL 5 PM	255699	6/10/2014	5152	1,018.75	29.5	1,590.31
1610211-1098	WINCH LINE BROKEN	251679	6/18/2014	5105	204.75	6	1,916.75
1610211-0401	LOW POWER	257665	6/18/2014	5274			
1610211-1001	DOOR SEALS BAD WC	256912	6/27/2014	5312	217.35	6.5	471.62
1610211-0101	ENGINE OIL CHANGE	258191	7/8/2014	5312	29.78	1	64.4
1610211-0701	LAMP OUT	260204	7/11/2014	5534	101.24	3	101.24
1610211-1098	CHANGE TRANS EVAC FITTING	198444	7/15/2014	5402	304.93	9.5	917.77
1610211-0901	INVESTIGATE RELOCATING HANDRAI	246497	7/15/2014	5653	89.92	2.5	89.92
1610211-0101	LEVEL 1 PM	261230	7/15/2014	5699	270.38	8	679.39
1610211-1001	RT CODENSOR FAN BAD	261952	7/19/2014	5747	197.09	5.5	463.98
1610211-0701	KEY SWITCH GOING BAD	262160	7/19/2014	5775	86.3	2.5	199.69
1610211-1098	CLAMP ON EXHAUST BAD	263862	7/29/2014	5775	69.04	2	87.87
1610211-0701	WILL NOT START	267462	8/19/2014	5870	17.26	0.5	191.69
1610211-0101	LEVEL 2 PM	267005	8/20/2014	6136	682.37	20	1,680.84
1610211-0101	ENGINE OIL CHANGE	267466	8/20/2014	6289	66.71	2	100.8
1610211-1098	FIRE SUPPRESSION	268899	8/26/2014	6110	214.35	6	214.35
1610211-0701	BATTERIES BAD	268740	8/28/2014	6136	107.18	3	505.31
1610211-0701	HORN BAD	269595	8/29/2014	6252	36.93	1	153.69
1610211-0501	REPLACE SPROCKET SEGMENTS	268794	9/2/2014	6294	412.65	11.5	2,391.83
1610211-0701	STARTER GOING BAD	267461	9/4/2014	6220	153.69	4	157.56
1610211-0501	TRACK PAD BOLTS MISSING	270173	9/4/2014	6277	421.47	12	592.67
1610211-0201	FUEL VENT NOT WORKING	270787	9/9/2014	6297	14.89	0.5	135
1610211-1001	REPLACE DOOR WIPERS	270894	9/9/2014	6381	14.89	0.5	94.58
1610211-0401	TRANS WONT ENGAGE-CODE 585	271283	9/11/2014	6868	184.65	5	184.65
1610211-0201	AUXILIARY DRIVE COVER LEAKING	272029	9/16/2014	6364	129.26	3.5	129.26
1610211-1098	SWO 2014	270408	9/17/2014	6364	124.44	3.5	124.44
1610211-0701	LEAK AT STARTER	272041	9/17/2014	6380	221.58	6	221.58
1610211-1098	WINCH DRUM SEAL LEAKING	272199	9/17/2014	6383			
1610211-0101	PRE -PM	272210	9/18/2014	6383			71.24
1610211-0401	X TRANS	271383	9/27/2014	6381	3,150.43	91.5	13,098.91
1610211-0411	X CONVERTER	271391	9/27/2014	6380	1,565.24	43.5	4,113.75
1610211-0101	ENGINE OIL CHANGE	277518	10/27/2014	6381			33.68

1610211-1001	WATER VALVES NEED REPLACING	273907	11/18/2014	6382	177.5	5	233.91
1610211-1098	PULL PIN MISSING	270560	11/19/2014	7056	126.6	3	387.76
1610211-0805	REPLACE 2 POWERTRAIN HOSES	273906	11/19/2014	6868			
1610211-0201	REPLACE TURBO	281348	11/19/2014	6859	438.42	12	3,512.75
1610211-0101	LEVEL 1 PM	278446	11/20/2014	6707	596.23	17.5	1,083.87
1610211-0201	ADJUST VALVES AND INJECTORS	278581	11/20/2014	6868	478.77	11.5	611.25
1610211-0101	ENGINE OIL CHANGE	278859	11/20/2014	6868	73.86	2	107.54
1610211-0901	FLIP CUTTING EDGES REPLACE END	281820	12/3/2014	6868	224.38	6.5	1,248.05
1610211-1001	REAR WINDOW SEAL LEAKING	282462	12/4/2014	6868	339.3	10	339.3
1610211-1001	A/C NOT COOLING	283844	12/12/2014	6931	807.22	23	1,716.28
1610211-0103	2014 STANDING WO	272211	12/30/2014	6932	532.22	15.75	671.85
1610211-0201	REGEN PROBLEMS	286109	12/30/2014	6992	1,655.02	45.5	4,190.14
1610211-0701	REPLACE BATT	292726	2/2/2015	7067	224.38	6.5	1,097.31
1610211-0101	LEVEL 2 PM	295574	2/12/2015	7173	506.26	17	1,104.70
1610211-1098	REPLACE TILT CYL PINS-BUSHING	286752	2/14/2015	-7647	1,104.97	33.5	1,712.30
1610211-0501	REPL TRACK SHOE BOLTS/NUTS	297040	2/23/2015	7124	588.96	16	796.27
1610211-0901	CRACK ON BLADE	297219	2/23/2015	7172	165.65	4.5	165.65
1610211-0701	REPAIR BATT CABLE	299036	3/5/2015	7186	137.64	4	137.64
1610211-0501	REPLACE CANNON SEALS ON RIGHT	298170	3/6/2015	7186			639.59
1610211-0501	FULL UNDERCARRIAGE	297349	3/8/2015	7179	4,169.35	120	54,194.07
1610211-0501	RT REAR IDLER BAD	300101	3/12/2015	7179	399.04	12	399.04
1610211-0501	REPLACE RIGHT REAR IDLER- WARR	301246	3/20/2015	7179	393.15	11	476.11
1610211-0701	REPLACE LIGHT ON LIFT CYLINDER	302752	3/28/2015	7188	39.47	1	153.59
1610211-1098	REPLACE CLAMP ON WINCH LINE	303714	4/14/2015	7196	51.62	1.5	205.31
1610211-0701	REPLACE DISCONNECT	305963	4/16/2015	7223	78.94	2	172.17
1610211-0803	REBUILD RIGHT LIFT CYL	313254	6/8/2015	7225	294.49	8	3,802.01
1610211-0401	TRANS QUIT PULLING	323773	7/12/2015	7262	302.11	8.25	4,152.34
1610211-0101	ENGINE OIL CHANGE	322161	8/17/2015	7296	79.97	2.5	147.18
1610211-0401	REPLACE TRANS FILTER HOSES	327820	9/8/2015	7398.4			201.99
1610211-1098	A/C NOT COOLING GOOD	328413	9/11/2015	7326	55.22	1.5	107.24
1610211-0401	TRANSMISSION OIL DISCOLORED	328602	9/12/2015	7475	138.34	3	242.86
1610211-0401	TRANS. SHIFTING HARD	327587	9/16/2015	7440			1,689.48
1610211-1001	A/C NOT WORKING	328893	9/16/2015	7450			
1610211-0103	SWO 1610211 (2015)	287725	12/30/2015	7467	380.12	10.25	581
1610211-0101	LEVEL 1 PM	339310	1/20/2016	7475	631.71	16	1,375.27
1610211-1001	SEAT BELT OUT OF DATE	347375	1/20/2016	7683	157.3	3.5	360.32
1610211-1001	SWITCH PANEL BROKEN ON CONSOLE	347377	1/20/2016	7775	36.81	1	53.54
1610211-1001	LOUVER BROKE RT CONSOLE	347378	1/20/2016	7775	18.41	0.5	41.65

1610211-0201	COVER ABOVE STARTER LEAKING	347379	1/20/2016	7663	138.15	3.5	147.46
1610211-1098	POWERTRAIN HOSES LEAKING	347380	1/20/2016	8985	468.22	10.5	702.38
1610211-1098	REPAIR FIRE SUPPRESSION SYSTEM	347518	1/20/2016	7663	78.94	2	360.68
1610211-0901	HAND RAILS BENT ON PUSH ARMS	334533	2/2/2016	7663	39.47	1	39.47
1610211-0803	BLADE ROLLS BACK WHILE WORKING	334749	3/16/2016	7663			
1610211-1001	WATER LEAKING IN CAB	336345	3/16/2016	7663	73.62	2	73.62
1610211-0805	HYD FILTER LEAKING	361356	4/20/2016	7663	78.94	2	217.96
1610211-0201	RE-GEN REPAIRS BY PUCKETT	362580	5/3/2016	7663	110.82	2	5,182.03
1610211-1001	REPLACE SIDE WINDOWS	359543	5/12/2016	8011	555.3	14	2,394.25
1610211-1001	A/C NOT COOLING	361497	6/1/2016	7947	118.41	3	172.11
1610211-1098	A/C NOT COOLING	356431	6/3/2016	7872	63.08	1.5	63.08
1610211-1001	A/C NOT COOLING	365483	6/11/2016	8011	995.64	26	5,016.16
1610211-0801	STEERING PUMP MAKING NOISE	369016	6/17/2016	7942	239.27	6.5	5,834.87
1610211-0201	WILL NOT REGEN	369739	6/20/2016	8038	95.08	2	748.32
1610211-0101	LEVEL 2 PM	372642	7/11/2016	8050	184.05	5	624.65
1610211-0201	REGEN FAULT	373186	7/14/2016	8088			142.37
1610211-0201	ENGINE DECELERATE POWER	373929	7/19/2016	8144			15.34
1610211-0201	WILL NOT REGEN	374608	8/20/2016	8276	416.03	11.5	2,947.32
1610211-1098	LIGHT MOUNT BROKE ON RT LIFT C	377778	8/20/2016	8160	39.47	1	98.33
1610211-1098	SLACK IN PUSH ARM TO BLADE	372790	9/14/2016	8176	36.81	1	21,272.22
1610211-1001	A/C NOT WORKING	379253	9/14/2016	8266			122.1
1610211-1001	RIGHT CONTROL PANEL CRACKED	381697	9/16/2016	8269			15.19
1610211-1001	RH DOOR GLASS BROKEN	385144	10/14/2016	8369			919.26
1610211-1001	REPLACE WIPER ARM	387872	10/20/2016	8604	29.51	1	129.58
1610211-0201	REGEN SYSTEM NOT WORKING	381608	10/28/2016	8416			
1610211-0701	REPLACED LIGHT BULB	383146	10/28/2016	8604			
1610211-0103	REPLACE AIR FILTERS	389809	10/28/2016	8478			112.63
1610211-0101	LEVEL 1 PM	389917	10/31/2016	8550	103.29	3.5	743.59
1610211-0101	ENGINE OIL CHANGE	389918	10/31/2016	8604	162.31	5.5	263.08
1610211-0301	COOLANT LEAK	391119	11/5/2016	8657	754.85	17.5	835.67
1610211-1098	BAD SOS/CHANGE FINAL OIL	391365	11/7/2016	8657	88.54	3	88.54
1610211-1098	BAD SOS/CHANGE ENGINE OIL	391367	11/7/2016	8729			
1610211-0101	ENGINE OIL CHANGE	391380	11/7/2016	8763	88.54	3	141.02
1610211-0201	AIR TO AIR HOSES BAD	391609	11/12/2016	8741	320.5	9	860.58
1610211-0401	TRANSMISSION SHIFTING HARD	392417	11/21/2016	8763			
1610211-1098	INSTALL FIRE SUPR SHUT DOWN	392615	12/13/2016	8799			493.04
1610211-1001	REAR WINDOW SEAL	397323	12/21/2016	8872	243.38	7.5	257.93
1610211-0901	LINE BORE BLADE BUSHING	397881	12/22/2016	8946	231.59	6	2,823.98

1610211-0301	STACK HAS A SPLIT	393785	12/30/2016	8885	127.84	4	384.44
1610211-0103	SWO 1610211 (2016)	344743	1/4/2017	8968	593.04	16.5	614.03
1610211-0501	REPAIR EQUILIZER BAR	402391	1/7/2017	8970	1,575.34	46.5	11,353.37
1610211-0101	FUEL FILTER RESTRICTION	406849	1/23/2017	8998	59.02	2	123.59
1610211-0701	REPLACE LIGHT	408645	2/2/2017	11391	29.51	1	465.06
1610211-1098	HANDRAIL BENT	405752	2/4/2017	9224	286.85	8	286.85
1610211-0101	ENGINE OIL CHANGE	407212	2/7/2017	9130	36.81	1	87
1610211-0701	REPLACE RADIO ANTENNA	408862	2/7/2017	9259	73.62	2	73.62
1610211-0201	ADJUST VALVES AND INJECTORS	407210	2/8/2017	9259	250.68	8	3,287.62
1610211-0101	LEVEL 3 PM	407211	2/8/2017	9259	523.43	16.5	1,665.33
1610211-1001	RH DOOR GLASS BROKE/INCCEDENT	412149	2/23/2017	9214			408.34
1610211-0201	REPLACE HOSE CLAMP	409683	3/7/2017	9259	66.32	2	73.62
1610211-1098	REPLACE DOOR SHOCK	409688	3/7/2017	9559	66.32	2	180.6
1610211-1098	WIPER ARM	414313	3/9/2017	9559	17.21	0.5	44.99
1610211-0801	HYD. LEAK	415643	3/16/2017	9441	165.21	4.5	165.21
1610211-0805	HYD HOSES WORN AND TUBE BENT	415656	3/21/2017	11391	294.79	9	1,441.51
1610211-1001	SEAT PRESENCE SWITCH FAILED	415951	3/21/2017	9589	193.96	5.5	1,177.21
1610211-0901	ENGINE DOOR STUTS BAD	416223	3/28/2017	9823	51.62	1.5	405.95
1610211-0501	TRACK FELL OFF	414819	3/30/2017	9657	853.75	22	1,862.12
1610211-0101	ENGINE OIL CHANGE	416285	4/1/2017	9837	132.81	4.5	168.79
1610211-0401	OIL LEAK FROM TRANS.	419383	4/7/2017	9736	295.39	8	295.39
1610211-0201	REPLACE FUEL FILTERS	419570	4/8/2017	9810	51.99	1	116.79
1610211-1098	FUEL PRESSURE LOW WARNING	420213	4/15/2017	9834.7	966.37	23.5	3,005.17
1610211-0701	FRONT LEFT WORKING LIGHT OUT	422645	4/28/2017	9880	48.05	1	478.29
1610211-0101	LEVEL 4 PM	420526	5/2/2017	9900	781.2	20.5	6,282.89
1610211-0201	#2 INJECTOR FAILED	423490	5/3/2017	10192	39.9	1	843.9
1610211-0201	BROKEN DIP STICK	423968	5/9/2017	10192	356.47	9	584.01
1610211-0101	ENGINE OIL CHANGE	424048	5/9/2017	10166	131.78	3.5	182.78
1610211-0201	REPLACE TURBO	423626	5/11/2017	10608	578.55	14.5	4,393.20
1610211-1098	WENCH CABLE REPLACEMENT	425140	5/20/2017	10235	181.12	5	181.12
1610211-1098	SPROCKET SEGMENTS	427300	5/27/2017	10571	768.69	18.5	768.69
1610211-1098	REPAIR WINCH	423322	6/2/2017	10319	1,294.70	34	7,323.82
1610211-0401	BAD SOS TRANSMISSION	427732	6/2/2017	10319			262.72
1610211-0101	ENGINE OIL CHANGE	429811	6/13/2017	10550	31.91	1	82.47
1610211-0201	REPAIRED WIRES ON CONDENSATOR	430280	6/15/2017	10571.1			494.98
1610211-0701	LEFT HEAD LIGHT OUT	430500	6/17/2017	10607	45.95	1	474.93
1610211-0701	A/C INOP	430558	6/18/2017	10806			246.84
1610211-0201	DIPSTICK CLAMP MISSING	431369	6/29/2017	11246	18.64	0.5	43.84

1610211-0805	HYDRAULIC HOSE	431370	6/29/2017	10837	228.86	6.5	369.17
1610211-0101	LEVEL 1 PM	431699	6/29/2017	10858	629.3	17	1,105.72
1610211-0701	L.H. TOP LIGHT OUT	434956	7/15/2017	10873	39.9	1	477.43
1610211-1098	SLACK IN PUSHARM PINS/BUSHINGS	431367	7/21/2017	11241	916.6	22	6,133.14
1610211-1098	BROKEN TRACK BOLTS	435836	7/29/2017	11135	593.87	15.5	703.5
1610211-0201	FINS DAMAGED ON AFTERCOOLER	431361	8/3/2017	10971			
1610211-0101	ENGINE OIL CHANGE	437783	8/13/2017	10971	97.02	2	97.02
1610211-0101	LEVEL 2 PM	437784	8/13/2017	10968	940.06	20.5	1,544.02
1610211-0201	ADJUST VALVES AND INJECTORS	437797	8/13/2017	11391	436.59	9	671.24
1610211-0103	A/C VENT MISSING	430040	9/15/2017	11062	114.45	3	161.35
1610211-0432	STEERING LOCKING UP	447427	10/10/2017	11237			893.89
1610211-0501	TRACKS LOCKING UP	446730	11/9/2017	11241	155.61	3.5	398.45
1610211-0501	FULL UNDERCARRIAGE	447850	11/9/2017	11241	2,577.92	64	59,252.59
1610211-0442	X RIGHT FINAL DRIVE	450720	11/9/2017	11241			6,962.25
1610211-0441	X LEFT FINAL DRIVE	450721	11/9/2017	11333			6,962.25
1610211-0101	PRE-PM INSPECTION (2017)	413149	12/12/2017	11308	622.18	17.5	1,404.54
1610211-0103	SWO 1610211 (2017)	402580	12/26/2017	11333	1,540.20	42.5	2,824.45
1610211-1098	BAD SOS 2017	432728	12/26/2017	11333	335.51	8.5	406.27
1610211-0101	ENGINE OIL CHANGE	518893	1/9/2018	11333	217.12	4	251.33
1610211-0701	REPLACE BATTERIES	466831	2/6/2018	11465	325.28	8	1,173.23
1610211-0805	HYDRAULIC HOSE BLOWN	473252	3/21/2018	11796	873.18	18	1,383.50
1610211-0701	REPAIR REAR LIGHT	475397	4/3/2018	12638	62.13	1.5	70.68
1610211-1001	REPLACE REAR GLASS SEAL	471282	4/28/2018	11595	82.84	2	1,031.91
1610211-0101	ENGINE OIL CHANGE	477297	4/28/2018	11866	144.97	3.5	343.63
1610211-0101	LEVEL 1 PM	477298	4/28/2018	11653	214.19	5	1,318.33
1610211-1098	REPAIR WINCH CABLE	479772	4/30/2018	11796	302.41	6.5	302.41
1610211-0803	REPACK TILT CYLINDER	474482	5/9/2018	11796	181.13	4	2,552.29
1610211-0701	MASTER SWITCH HARD TO WORK	485346	6/7/2018	11796	194.73	3	301.71
1610211-1001	RH LOWER WIPER ARM	486706	6/23/2018	13203	192.47	4.5	297.23
1610211-0101	LEVEL 3 PM	486928	7/3/2018	11988	476.07	11.5	2,686.41
1610211-0101	ENGINE OIL CHANGE	486929	7/3/2018	12139	59.85	1.5	111.23
1610211-1098	WINCH CABLE BROKE	489110	7/20/2018	12178	456.43	10	3,262.15
1610211-0401	HAS ONLY FIRST GEAR	495063	8/9/2018	12178			283.76
1610211-0201	NO POWER/ENGINE MISS	501668	9/26/2018	12272	315.63	8	8,302.02
1610211-0101	ENGINE OIL CHANGE	501437	9/28/2018	12308			
1610211-1098	REPLACE FUEL & AIR FILTERS	471472	9/30/2018	13157	276.88	6	651.55
1610211-0101	LEVEL 1 PM	501436	10/19/2018	12836	161.12	4	1,327.44
1610211-0201	REPLACE PRECLEANER TURBINE	505542	10/24/2018	12637			639.71

1610211-0701	BAD BATTERIES	510905	11/15/2018	12637	239.4	6	1,312.19
1610211-0101	LEVEL 2 PM	513745	12/9/2018	12847	79.8	2	615.37
1610211-0101	ENGINE OIL CHANGE	513746	12/9/2018	13004			51.56
1610211-1098	SWO 2018	483257	12/23/2018	13157	540.17	12	619.95
1610211-0701	WANT CRANK	518383	12/30/2018	13157	750.24	18.5	3,752.70
1610211-0401	BAD SOS-CHANGE FILTER/OIL	499747	12/31/2018	13503	82.84	2	1,573.10
1610211-1098	HIGH CRANK CASE PRESSURE	518491	1/2/2019	13270	302.4	6.5	347.24
1610211-1098	REPLACE HAND HOLDS	517709	1/4/2019	13266			1,530.53
1610211-0301	COOLANT LEAK	518384	1/4/2019	13270	305.3	7.5	343.21
1610211-0901	INSTALLED GRAB BAR	523906	1/25/2019	13269	39.9	1	39.9
1610211-0201	WILL NOT REGEN	515591	2/7/2019	11418			402.81
1610211-0701	REPLACE MASTER SWITCH	525576	2/7/2019	13393			105.97
1610211-0805	HYDRAULIC HOSES BLOWN	527005	2/11/2019	13525			149.16
1610211-1001	REPLACE SEAT BELT	527717	2/16/2019	13620	82.84	2	1,815.36
1610211-1001	A/C NOT COOLING	526094	2/28/2019	13620			
1610211-0101	ENGINE OIL CHANGE	529691	2/28/2019	13556	206.5	4	258.78
1610211-0101	LEVEL 1 PM	529692	2/28/2019	13577	238.81	5	833.73
1610211-1001	REPLACE REAR WINDOW SEAL	525577	3/1/2019	14499	159.6	4	241.54
1610211-1001	REPAIR REAR GLASS SEAL	532809	3/21/2019	13620			
1610211-0805	REPLACE HYD HOSE	534720	3/29/2019	13620	122.74	3	353.83
1610211-1001	A/C NOT WORKING SOMETIMES	533375	4/5/2019	14499			
1610211-0101	ENGINE OIL CHANGE	536034	4/5/2019	13803	82.84	2	237.06
1610211-1098	REPLACE SPROCKETS/USED ONES	536164	4/5/2019	13900			
1610211-0201	ADJUST VALVES AND INJECTORS	536033	4/6/2019	13855	273.85	6	7,174.04
1610211-1001	REPAIR A/C	538715	4/23/2019	13915			186.91
1610211-1098	CHANGE TRANS OIL	539036	4/25/2019	13915			90.68
1610211-0101	LEVEL 4 PM	536035	5/11/2019	14155	579.74	13	1,332.19
1610211-0201	REPAIR REGEN	536389	5/11/2019	13914	82.84	2	396.27
1610211-0805	TILT CYLINDER HOSE BLOWN	541181	5/11/2019	14155	116.64	3	335.87
1610211-0101	ENGINE OIL CHANGE	546045	6/14/2019	14023	129.98	2.5	301.96
1610211-1098	FAN SOLENOID BAD	546838	6/20/2019	0			291.05
1610211-1098	REPAIR WINCH CABLE	543157	6/30/2019	14023			
1610211-0805	R.H BLADE CYL SEAPING	527918	7/8/2019	14155			
1610211-1098	REPLACE FUEL FILTERS	532524	7/8/2019	14499			339.82
1610211-0103	SWO 1610211 (2014)	229743		14424	1,438.73	42.5	1,459.73
1610211-0501	REPLACE BROKEN TRACK BOLTS	538826			661.98	17	1,443.94
1610211-0101	LEVEL 1 PM	553233		0			588.61

COMPANY NAME : LIBERTY FUELS COMPANY
CUSTOMER EQUIP NUM : 1610211
COMPARTMENT NAME : HYDRAULIC SYSTEM
SERIAL NUMBER : MLN00708
MANUFACTURER : CATERPILLAR
MODEL : D8T
JOB SITE :
EXT WARR NUMBER :
SAMPLE SHIP TIME (days) : 5

FAX :
PHONE :

SAMPLE TYPE: OIL
SAMPLE SHIP TIME (days) : 5



100 Caterpillar Drive
P.O. Box 321033
Flowood, MS 39232
(769)777-7270
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FILTER CHANGED

MAKE UP FLUID UNITS

MAKE UP FLUID

FLUID CHANGED

METER ON FLUID

EQUIPMENT METER

PROCESS DATE

SAMPLE DATE

LAB CONTROL NUMBER

No

UNKNOWN HOURS ON OIL. HIGHER READINGS REMAIN STEADY. CONSIDER CHECKING FOR OIL LEAKS AT ROD WIPER SEALS OR PUMP SEALS/GASKETS THAT MIGHT BE ALLOWING DIRT. REPAIR IF NEEDED. THEN CHANGE OIL AND FILTERS AND RESAMPLE WITH OIL AT OPERATING TEMP (BASE SAMPLE). RESAMPLE AGAIN AT THE NEXT ENGINE OIL SERVICE.

Action Required

No

14664 HR

14-Aug-2019

09-Aug-2019

D440-49226-0019

Yes

UNKNOWN HOURS ON OIL. COPPER AND SILICON (TYPICALLY DIRT) LEVELS ARE ELEVATED. ALUMINUM LEVEL IS HIGH. CONSIDER CHECKING FOR OIL LEAKS AT ROD WIPER SEALS OR PUMP SEALS/GASKETS THAT MIGHT BE ALLOWING DIRT. REPAIR IF NEEDED. THEN CHANGE OIL AND FILTERS AND RESAMPLE WITH OIL AT OPERATING TEMP (BASE SAMPLE). RESAMPLE AGAIN AT THE NEXT ENGINE OIL SERVICE.

Action Required

No

14655 HR

05-Aug-2019

24-Jul-2019

D440-49217-0014

Yes

ALUMINUM AND SILICON (TYPICALLY DIRT) LEVELS ARE ELEVATED. FILTER WAS CHANGED. PLEASE INDICATE HOURS ON OIL. WILL MONITOR AT THE NEXT REGULAR SCHEDULED OIL SERVICE. CONTINUE NORMALLY SCHEDULED SAMPLING.

No Action Required

No

14155 HR

17-May-2019

10-May-2019

D440-49137-0037

Yes

UNKNOWN HOURS ON OIL. SILICON (TYPICALLY DIRT) AND COPPER LEVELS ARE SLIGHTLY ELEVATED. OTHER READINGS APPEAR TO BE NORMAL. FILTER WAS CHANGED. WILL MONITOR AT NEXT REGULAR SCHEDULED OIL SERVICE.

No Action Required

No

13620 HR

06-Mar-2019

28-Feb-2019

D440-49065-0040

Wear (ppm)

Cu	Fe	Cr	Al	Pb	Sn	Si	Na	K	B	Mn	Ni	Ag	Ti	V	Mn	Cd	Ca	Mg	Zn	P	Ba
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17	15	0	11	1	0	21	0	1	1	0	0	0	0	0	0	0	2210	7	1072	819	0
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19	16	1	11	3	0	21	0	2	2	0	0	0	1	0	0	0	2040	8	1032	766	0
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17	14	1	9	1	0	18	0	0	2	1	0	0	1	0	0	0	2295	9	1138	853	0
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18	15	0	8	4	0	17	0	1	1	0	0	0	0	0	0	0	2416	8	1131	870	0
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Oil Condition :

Particle Count (ct/ml)

ST	OXI	NIT	SUL	W	ISO	V100	A	W	W	4μ	6μ	10μ	14μ	18μ	21μ	38μ	50μ
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0	3	4	13	N	N	6.4	20/17/13	7029	750	173	51	16	9	1	0	0	0
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0	3	4	13	N	N	6.5	21/17/14	12528	914	294	136	66	43	8	1	0	0
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0	3	4	12	N	N	6.6	21/15/10	16806	300	28	7	2	1	0	0	0	0
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0	3	4	12	N	N	6.5	22/18/14	32581	1312	249	111	54	35	7	2	0	0
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Ag = Silver, Al = Aluminum, B = Boron, Ca = Calcium, Cr = Chromium, Cu = Copper, Fe = Iron, P = Phosphorus, K = Potassium, Li = Lithium, Mg = Magnesium, Mo = Molybdenum, Na = Sodium, Ni = Nickel, Pb = Lead, Si = Silicon, Sn = Tin, S = Sulphur, V = Vanadium, Zn = Zinc, A = Antifreeze, F = Fuel, W = Water, P = Positive, N = Negative, T = Trace, E = Excessive, NIT = Nitration, OXI = Oxidation, ST = Soot, SUL = Sulfation, ISO = ISO Rating, PFC = Percent Fuel Content, PCL = Particle Quantifying Index, NaW = Salt Water, FL Pt = Flash Point, TAN = Total Acid Number, TBN = Total Base Number, H2O = Karl Fisher result, V100 = Viscosity@100C, V40 = Viscosity@40C, PVI = Particle Volume Indicator

Notice: This analysis is intended as an aid in predicting mechanical wear. No guarantee, expressed or implied, is made against failure of this piece of equipment or a component thereof.

COMPANY NAME: LIBERTY FUELS COMPANY
CUSTOMER EQUIP NUM: 1610211
COMPARTMENT NAME: TRANSMISSION POWER SHIFT
SERIAL NUMBER: MLN00708
MANUFACTURER: CATERPILLAR
MODEL: D8T
JOB SITE:
EXT WARR NUMBER: 12FAX: 601-737-7977
PHONE: 601-737-7078
SAMPLE TYPE: OIL
SAMPLE SHIP TIME (days): 12100 Caterpillar Drive
P.O. Box 321033
Flowood, MS 39232
(769)777-7270
puckett.cat.comSHOP JOB NUM:
COMP SERIAL NUM:
COMPARTMENT MODEL:
COMP MANUFACTURER:
SAMPLE LABEL NUM:
FLUID BRAND/WEIGHT: 30
FLUID TYPE: OIL
EXT WARR EXPIRE DATE:
FUEL CONSUMED:

LAB CONTROL NUMBER	SAMPLE DATE	PROCESS DATE	EQUIPMENT METER	METER ON FLUID	FLUID CHANGED	MAKE UP FLUID	MAKE UP FLUID UNITS	FILTER CHANGED													
D440-49217-0012	24-Jul-2019	05-Aug-2019	14655 HR	500 HR	No			Yes													
IRON LEVEL IS ELEVATED. OIL TOO DARK FOR PARTICLE COUNT ANALYSIS. OTHER READINGS APPEAR TO BE NORMAL. FILTER WAS CHANGED, OIL WAS NOT. WILL MONITOR AT THE NEXT REGULAR SCHEDULED OIL SERVICE.																					
D440-49137-0025	10-May-2019	17-May-2019	14155 HR	128 HR	Yes			Yes													
NORMAL WEAR METAL READINGS. NO PROBLEMS PRESENTLY ASSOCIATED WITH THIS SAMPLE. CONTINUE SAMPLING AT THE NORMAL INTERVAL.																					
D440-49120-0027	24-Apr-2019	30-Apr-2019	14027 HR	407 HR	Yes			Yes													
IRON LEVEL IS HIGH. OIL TOO DARK FOR PARTICLE COUNT ANALYSIS. OTHER READINGS APPEAR TO BE NORMAL. OIL AND FILTER WERE CHANGED. CONTINUE NORMALLY SCHEDULED SAMPLING.																					
D440-49065-0032	28-Feb-2019	06-Mar-2019	13620 HR	463 HR	Yes			Yes													
IRON LEVEL IS ELEVATED. OTHER WEAR METAL READINGS APPEAR TO BE NORMAL. OIL WAS CHANGED. CONTINUE NORMALLY SCHEDULED SAMPLING.																					
Wear Metals (ppm)																					
Cu	Fe	Cr	Al	Pb	Sn	Si	Na	K	B	Mo	Ni	Ag	Ti	V	Mn	Cd	Ca	Mg	Zn	P	Ba
D440-49217-0012	3	28	0	0	0	9	0	4	9	0	0	0	0	0	0	0	2285	100	1067	874	0
D440-49137-0025	1	16	0	0	0	1	0	1	6	1	0	0	0	0	0	0	2464	65	1089	884	0
D440-49120-0027	4	33	0	0	0	2	2	4	10	0	0	0	0	0	0	0	2099	104	960	819	0
D440-49065-0032	2	23	0	0	1	1	2	1	2	8	0	0	0	0	0	0	2493	92	1138	935	0
Oil Condition :																					
ST		OXI	NIT	SUL	W	A	V100	ISO													
Particle Count (cc/ml)																					
D440-49217-0012	2	4	5	14	N	N	11.1	BLACK													
D440-49137-0025	0	3	4	13	N	N	11.0	BLACK													
D440-49120-0027	2	4	5	14	N	N	11.0	BLACK													
D440-49065-0032	1	4	5	13	N	N	11.0	BROWN													

Ag = Silver, Al = Aluminum, B = Boron, Ce = Calcium, Cr = Chromium, Cu = Copper, Fe = Iron, P = Phosphorus, K = Potassium, Li = Lithium, Mg = Magnesium, Mo = Molybdenum, Na = Sodium, Ni = Nickel, Pb = Lead, Si = Silicon, Sn = Tin, S = Sulphur, V = Vanadium, Zn = Zinc, A = Antifreeze, F = Fuel, W = Water, P = Positive, N = Negative, T = Trace, E = Excessive, NIT = Nitration, OXI = Oxidation, ST = Soot, SUL = Sulfation, ISO = ISO Rating, PFC = Percent Fuel Content, PQI = Particle Quantifying Index, NaW = Salt Water, FL Pt = Flash Point, TAN = Total Acid Number, TBN = Total Base Number, H2O = Karl Fisher result, V100 = Viscosity@100C, V40 = Viscosity@40C, PVI = Particle Volume Indicator

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COMPANY NAME : LIBERTY FUELS COMPANY
CUSTOMER EQUIP NUM : 1610211
COMPARTMENT NAME : HYDRAULIC SYSTEM
SERIAL NUMBER : MLN00708
MANUFACTURER : CATERPILLAR
MODEL : D8T
JOB SITE :
EXT WARR NUMBER :
SAMPLE SHIP TIME (days) : 12

FAX:

PHONE:

SAMPLE TYPE: OIL

SAMPLE SHIP TIME (days) : 12

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Flowood, MS 39232
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LAB CONTROL NUMBER	SAMPLE DATE	PROCESS DATE	EQUIPMENT METER	METER ON FLUID	FLUID CHANGED	MAKE UP FLUID	MAKE UP FLUID UNITS	FILTER CHANGED																																																																																																																			
D440-49217-0014	24-Jul-2019	05-Aug-2019	14655 HR		No			Yes																																																																																																																			
UNKNOWN HOURS ON OIL. COPPER AND SILICON (TYPICALLY DIRT) LEVELS ARE HIGH. CONSIDER CHECKING FOR OIL LEAKS AT ROD WIPER SEALS OR PUMP SEALS/GASKETS THAT MIGHT BE ALLOWING DIRT. REPAIR IF NEEDED. THEN CHANGE OIL AND FILTERS AND RESAMPLE WITH OIL AT OPERATING TEMP (BASE SAMPLE). RESAMPLE AGAIN AT THE NEXT ENGINE OIL SERVICE.																																																																																																																											
D440-49137-0037	10-May-2019	17-May-2019	14155 HR		No			Yes																																																																																																																			
ALUMINUM AND SILICON (TYPICALLY DIRT) LEVELS ARE ELEVATED. FILTER WAS CHANGED. PLEASE INDICATE HOURS ON OIL. WILL MONITOR AT THE NEXT REGULAR SCHEDULED OIL SERVICE. CONTINUE NORMALLY SCHEDULED SAMPLING.																																																																																																																											
D440-49065-0040	28-Feb-2019	06-Mar-2019	13620 HR		No			Yes																																																																																																																			
UNKNOWN HOURS ON OIL. SILICON (TYPICALLY DIRT) AND COPPER LEVELS ARE SLIGHTLY ELEVATED. OTHER READINGS APPEAR TO BE NORMAL. FILTER WAS CHANGED. WILL MONITOR AT NEXT REGULAR SCHEDULED OIL SERVICE.																																																																																																																											
D440-48348-0045	09-Dec-2018	14-Dec-2018	13157 HR		No			Yes																																																																																																																			
NORMAL READINGS. CONTINUE NORMALLY SCHEDULED SAMPLING.																																																																																																																											
<table><tr><th>Wear Metals (ppm)</th><th>Cu</th><th>Fe</th><th>Cr</th><th>Al</th><th>Pb</th><th>Sn</th><th>Si</th><th>Na</th><th>K</th><th>B</th><th>Mo</th><th>Ni</th><th>Ag</th><th>Ti</th><th>V</th><th>Mn</th><th>Cd</th><th>Ca</th><th>Mg</th><th>Zn</th><th>P</th><th>Ba</th></tr><tr><td>D440-49217-0014</td><td>19</td><td>16</td><td>1</td><td>11</td><td>3</td><td>0</td><td>21</td><td>0</td><td>2</td><td>2</td><td>0</td><td>0</td><td>0</td><td>1</td><td>0</td><td>0</td><td>0</td><td>2040</td><td>8</td><td>1032</td><td>766</td><td>0</td></tr><tr><td>D440-49137-0037</td><td>17</td><td>14</td><td>1</td><td>9</td><td>1</td><td>0</td><td>18</td><td>0</td><td>0</td><td>2</td><td>1</td><td>0</td><td>0</td><td>1</td><td>0</td><td>0</td><td>0</td><td>2295</td><td>9</td><td>1138</td><td>853</td><td>0</td></tr><tr><td>D440-49065-0040</td><td>18</td><td>15</td><td>0</td><td>8</td><td>4</td><td>0</td><td>17</td><td>0</td><td>1</td><td>1</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>2416</td><td>8</td><td>1131</td><td>870</td><td>0</td></tr><tr><td>D440-48348-0045</td><td>17</td><td>13</td><td>1</td><td>10</td><td>4</td><td>0</td><td>16</td><td>0</td><td>2</td><td>2</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>2350</td><td>8</td><td>1101</td><td>837</td><td>0</td></tr></table>									Wear Metals (ppm)	Cu	Fe	Cr	Al	Pb	Sn	Si	Na	K	B	Mo	Ni	Ag	Ti	V	Mn	Cd	Ca	Mg	Zn	P	Ba	D440-49217-0014	19	16	1	11	3	0	21	0	2	2	0	0	0	1	0	0	0	2040	8	1032	766	0	D440-49137-0037	17	14	1	9	1	0	18	0	0	2	1	0	0	1	0	0	0	2295	9	1138	853	0	D440-49065-0040	18	15	0	8	4	0	17	0	1	1	0	0	0	0	0	0	0	2416	8	1131	870	0	D440-48348-0045	17	13	1	10	4	0	16	0	2	2	0	0	0	0	0	0	0	2350	8	1101	837	0
Wear Metals (ppm)	Cu	Fe	Cr	Al	Pb	Sn	Si	Na	K	B	Mo	Ni	Ag	Ti	V	Mn	Cd	Ca	Mg	Zn	P	Ba																																																																																																					
D440-49217-0014	19	16	1	11	3	0	21	0	2	2	0	0	0	1	0	0	0	2040	8	1032	766	0																																																																																																					
D440-49137-0037	17	14	1	9	1	0	18	0	0	2	1	0	0	1	0	0	0	2295	9	1138	853	0																																																																																																					
D440-49065-0040	18	15	0	8	4	0	17	0	1	1	0	0	0	0	0	0	0	2416	8	1131	870	0																																																																																																					
D440-48348-0045	17	13	1	10	4	0	16	0	2	2	0	0	0	0	0	0	0	2350	8	1101	837	0																																																																																																					
<table><tr><th>Oil Condition :</th><th>ST</th><th>OXI</th><th>NIT</th><th>SUL</th><th>W</th><th>A</th><th>V100</th><th>ISO</th><th>4μ</th><th>6μ</th><th>10μ</th><th>14μ</th><th>18μ</th><th>21μ</th><th>38μ</th><th>50μ</th></tr><tr><td>D440-49217-0014</td><td>0</td><td>3</td><td>4</td><td>13</td><td>N</td><td>N</td><td>6.5</td><td>21/17/14</td><td>12528</td><td>914</td><td>294</td><td>136</td><td>66</td><td>43</td><td>8</td><td>1</td></tr><tr><td>D440-49137-0037</td><td>0</td><td>3</td><td>4</td><td>12</td><td>N</td><td>N</td><td>6.6</td><td>21/15/10</td><td>16806</td><td>300</td><td>28</td><td>7</td><td>2</td><td>1</td><td>0</td><td>0</td></tr><tr><td>D440-49065-0040</td><td>0</td><td>3</td><td>4</td><td>12</td><td>N</td><td>N</td><td>6.5</td><td>22/18/14</td><td>32581</td><td>1312</td><td>249</td><td>111</td><td>54</td><td>35</td><td>7</td><td>2</td></tr><tr><td>D440-48348-0045</td><td>0</td><td>3</td><td>4</td><td>14</td><td>N</td><td>N</td><td>6.5</td><td>20/16/13</td><td>8458</td><td>477</td><td>111</td><td>51</td><td>29</td><td>21</td><td>4</td><td>2</td></tr></table>									Oil Condition :	ST	OXI	NIT	SUL	W	A	V100	ISO	4μ	6μ	10μ	14μ	18μ	21μ	38μ	50μ	D440-49217-0014	0	3	4	13	N	N	6.5	21/17/14	12528	914	294	136	66	43	8	1	D440-49137-0037	0	3	4	12	N	N	6.6	21/15/10	16806	300	28	7	2	1	0	0	D440-49065-0040	0	3	4	12	N	N	6.5	22/18/14	32581	1312	249	111	54	35	7	2	D440-48348-0045	0	3	4	14	N	N	6.5	20/16/13	8458	477	111	51	29	21	4	2																														
Oil Condition :	ST	OXI	NIT	SUL	W	A	V100	ISO	4μ	6μ	10μ	14μ	18μ	21μ	38μ	50μ																																																																																																											
D440-49217-0014	0	3	4	13	N	N	6.5	21/17/14	12528	914	294	136	66	43	8	1																																																																																																											
D440-49137-0037	0	3	4	12	N	N	6.6	21/15/10	16806	300	28	7	2	1	0	0																																																																																																											
D440-49065-0040	0	3	4	12	N	N	6.5	22/18/14	32581	1312	249	111	54	35	7	2																																																																																																											
D440-48348-0045	0	3	4	14	N	N	6.5	20/16/13	8458	477	111	51	29	21	4	2																																																																																																											

Ag = Silver, Al = Aluminum, B = Boron, Ca = Calcium, Cr = Chromium, Cu = Copper, Fe = Iron, P = Phosphorus, K = Potassium, Li = Lithium, Mg = Magnesium, Mo = Molybdenum, Na = Sodium, Ni = Nickel, Pb = Lead, Si = Silicon, Sn = Tin, S = Sulfur, V = Vanadium, Zn = Zinc, A = Antifreeze, F = Fuel, W = Water, P = Positive, N = Negative, T = Trace, E = Excessive, NIT = Nitration, OXI = Oxidation, ST = Soot, SUL = Sulfation, ISO = ISO Rating, PFC = Percent Fuel Content, PQI = Particle Quantifying Index, NaW = Salt Water, FL Pt = Flash Point, TAN = Total Acid Number, TBN = Total Base Number, H2O = Karl Fisher result, V100 = Viscosity@100C, V40 = Viscosity@40C, PVI = Particle Volume Indicator

Notice: This analysis is intended as an aid in predicting mechanical wear. No guarantee, expressed or implied, is made against failure of this piece of equipment or a component thereof.

COMPANY NAME : LIBERTY FUELS COMPANY
CUSTOMER EQUIP NUM : 1610211
COMPARTMENT NAME : FINAL DRIVE REAR LEFT
SERIAL NUMBER : MLN00708
MANUFACTURER : CATERPILLAR
MODEL : D8T
JOB SITE :
EXT WARR NUMBER :
SHOP JOB NUM :
COMP SERIAL NUM :
COMPARTMENT MODEL :
COMP MANUFACTURER :
SAMPLE LABEL NUM :
FLUID BRAND/WEIGHT : 60
FLUID TYPE : OIL
EXT WARR EXPIRE DATE :
FUEL CONSUMED :

FAX:

PHONE:

SAMPLE TYPE: OIL

SAMPLE SHIP TIME (days): 12



100 Caterpillar Drive
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LAB CONTROL NUMBER	SAMPLE DATE	PROCESS DATE	EQUIPMENT METER	METER ON FLUID	FLUID CHANGED	MAKE UP FLUID UNITS	FILTER CHANGED																
D440-49217-0018	24-Jul-2019	05-Aug-2019	14655 HR	500 HR	Yes																		
NORMAL WEAR METAL READINGS. NO PROBLEMS PRESENTLY ASSOCIATED WITH THIS SAMPLE. CONTINUE SAMPLING AT THE NORMAL INTERVAL.																							
D440-49137-0059	10-May-2019	17-May-2019	14155 HR	535 HR	Yes																		
NORMAL READINGS. CONTINUE NORMALLY SCHEDULED SAMPLING.																							
D440-49065-0059	28-Feb-2019	06-Mar-2019	13620 HR	463 HR	Yes																		
NORMAL READINGS. CONTINUE NORMALLY SCHEDULED SAMPLING.																							
D440-48348-0060	12-Dec-2018	14-Dec-2018	13157 HR	321 HR	Yes																		
NORMAL READINGS. CONTINUE NORMALLY SCHEDULED SAMPLING.																							
Wear Metals (ppm)																							
	Cu	Fe	Cr	Al	Pb	Sn	Si	Na	K	B	Mo	Ni	Ag	Ti	V	Mn	Cd	Ca	Mg	Zn	P	Ba	
D440-49217-0018	1	39	1	0	1	0	3	3	2	74	0	0	0	0	0	0	0	0	514	8	149	334	0
D440-49137-0059	0	31	1	1	0	0	10	1	0	74	1	0	0	0	0	0	0	358	5	72	284	0	
D440-49065-0059	0	40	1	0	0	0	9	3	1	58	0	0	0	0	0	0	0	1129	19	452	528	0	
D440-48348-0060	0	37	2	1	2	3	10	6	1	78	0	0	0	0	0	0	0	330	4	52	288	0	
Oil Condition																							
Particle Count (ct/ml)																							
	ST	OXI	NIT	SUL	W	V100	ISO	4μ	6μ	10μ	14μ	18μ	21μ	38μ	50μ								
D440-49217-0018	0	8	4	4	15	N	22.6	23/21/14	59317	14919	844	119	25	13	2	0							
D440-49137-0059	0	8	4	4	14	N	23.7	BROWN															
D440-49065-0059	0	6	4	4	14	N	17.8	BROWN															
D440-48348-0060	0	8	4	4	14	N	24.9	23/22/15	56031	20480	1672	281	81	37	2	1							

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COMPANY NAME : LIBERTY FUELS COMPANY
CUSTOMER EQUIP NUM : 1610211
COMPARTMENT NAME : FINAL DRIVE REAR RIGHT
SERIAL NUMBER : MLN00708
MANUFACTURER : CATERPILLAR
MODEL : D8T
JOB SITE :
EXT WARR NUMBER :
SAMPLE SHIP TIME (days) : 12

FAX :
PHONE :

SAMPLE TYPE: OIL
SAMPLE SHIP TIME (days) : 12



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FILTER CHANGED

MAKE UP FLUID

MAKE UP FLUID

FLUID CHANGED

METER ON FLUID

EQUIPMENT METER

PROCESS DATE

SAMPLE DATE

LAB CONTROL NUMBER

D440-49217-0019 24-Jul-2019 05-Aug-2019 14655 HR 500 HR Yes
NORMAL WEAR METAL READINGS. NO PROBLEMS PRESENTLY ASSOCIATED WITH THIS SAMPLE. CONTINUE SAMPLING AT THE NORMAL INTERVAL.

No Action Required

D440-49137-0060 10-May-2019 17-May-2019 14155 HR 535 HR Yes

NORMAL READINGS. CONTINUE NORMALLY SCHEDULED SAMPLING.

No Action Required

D440-49065-0060 28-Feb-2019 06-Mar-2019 13620 HR 463 HR Yes

IRON LEVEL IS ELEVATED. OTHER READINGS APPEAR TO BE NORMAL. OIL WAS CHANGED. CONTINUE NORMALLY SCHEDULED SAMPLING.

No Action Required

D440-48348-0061 12-Dec-2018 14-Dec-2018 13157 HR 321 HR Yes

NORMAL READINGS. CONTINUE NORMALLY SCHEDULED SAMPLING.

No Action Required

Wear Metals (ppm)	Cu	Fe	Cr	Al	Pb	Sn	Si	Na	K	B	Mo	Ni	Ag	Ti	V	Mn	Cd	Ca	Mg	Zn	P	Ba
D440-49217-0019	1	58	1	0	0	1	6	3	1	80	0	0	0	0	0	0	0	345	4	62	285	0
D440-49137-0060	0	34	1	1	0	1	11	0	0	75	1	0	0	0	0	0	0	335	6	58	278	0
D440-49065-0060	0	158	1	3	0	0	28	5	1	80	0	0	0	0	0	1	0	307	2	35	279	0
D440-48348-0061	0	42	2	1	3	0	8	5	1	70	0	0	0	0	0	0	0	450	7	118	314	0

Oil Condition / Particle Count (ct/ml)	ST	OXI	NIT	W	V100	ISO	4μ	6μ	10μ	14μ	18μ	21μ	38μ	50μ
D440-49217-0019	0	9	4	15	N	24.2	2321/13	52507	10784	515	58	9	3	0
D440-49137-0060	0	8	4	14	N	24.0	BROWN							
D440-49065-0060	0	9	4	15	N	24.8	BROWN							
D440-48348-0061	0	8	4	17	N	23.4	BLACK							

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CUSTOMER EQUIP NUM : 1610211

COMPARTMENT NAME : WINCH

SERIAL NUMBER : MLN00708

MANUFACTURER : CATERPILLAR

MODEL : D8T

JOB SITE :

EXT WARR NUMBER :

FAX :

PHONE :

SAMPLE TYPE: OIL

SAMPLE SHIP TIME (days) : 12

SHOP JOB NUM :

COMP SERIAL NUM :

COMPARTMENT MODEL :

COMP MANUFACTURER :

SAMPLE LABEL NUM :

FLUID BRAND/WEIGHT : 30

FLUID TYPE: OIL

EXT WARR EXPIRE DATE :

FUEL CONSUMED :

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Flowood, MS 39232
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LAB CONTROL NUMBER	SAMPLE DATE	PROCESS DATE	EQUIPMENT METER	METER ON FLUID	FLUID CHANGED	MAKE UP FLUID	MAKE UP FLUID UNITS	FILTER CHANGED														
D440-49217-0017	24-Jul-2019	05-Aug-2019	14655 HR	500 HR	No																	
NORMAL WEAR METAL READINGS. ISO PARTICLE COUNT ANALYSIS IS ABOVE THE RECOMMENDED 18/15 LEVEL. NO OIL OR FILTER CHANGE NOTED. WILL MONITOR AT THE NEXT REGULAR SCHEDULED OIL SERVICE. CONTINUE NORMALLY SCHEDULED SAMPLING.																						
D440-49137-0061	10-May-2019	17-May-2019	14155 HR	988 HR	Yes																	
READINGS APPEAR NORMAL. OIL WAS CHANGED. CONTINUE NORMALLY SCHEDULED SAMPLING.																						
D440-49065-0061	28-Feb-2019	06-Mar-2019	13620 HR	463 HR	No			Yes														
READINGS APPEAR NORMAL. CONTINUE NORMALLY SCHEDULED SAMPLING.																						
D440-48348-0062	12-Dec-2018	14-Dec-2018	13157 HR	979 HR	Yes			Yes														
NORMAL READINGS. CONTINUE NORMALLY SCHEDULED SAMPLING.																						
Wear Metals (ppm)																						
Cu	Fe	Cr	Al	Pb	Sn	Si	Na	K	B	Mo	Ni	Ag	Ti	V	Mn	Cd	Ca	Mg	Zn	P	Ba	
D440-49217-0017	12	7	0	0	7	0	13	0	3	2	0	0	0	1	0	0	0	2493	9	1057	844	0
D440-49137-0061	20	11	0	0	7	0	2	0	0	2	0	0	0	3	0	0	0	2358	7	1016	821	0
D440-49065-0061	16	12	0	0	6	0	4	0	2	1	0	0	0	2	0	0	0	2552	7	1111	895	0
D440-48348-0062	60	30	1	3	16	1	9	1	2	1	0	0	0	15	0	0	0	2171	6	1040	844	0
Oil Condition / Particle Count (um)																						
ST	OXI	NIT	SUL	W	V100	ISO	4µ	6µ	10µ	14µ	18µ	21µ	38µ	50µ								
D440-49217-0017	0	3	4	13	N	11.1	24/22/15	94945	36948	3555	255	39	17	1	0							
D440-49137-0061	0	2	4	11	N	11.0	24/22/16	90322	38002	4641	488	76	32	3	1							
D440-49065-0061	0	3	4	12	N	11.1	24/23/19	129457	68586	13509	2743	642	275	15	2							
D440-48348-0062	0	2	4	11	N	11.2	BLACK															

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COMPANY NAME : LIBERTY FUELS COMPANY
CUSTOMER EQUIP NUM : 1610211
COMPARTMENT NAME : ENGINE
SERIAL NUMBER : MLN00708
MANUFACTURER : CATERPILLAR
MODEL : D8T
JOB SITE :
EXT WARR NUMBER :
SAMPLE SHIP TIME (days) : 10

SHOP JOB NUM :
COMP SERIAL NUM : TXL00708
COMPARTMENT MODEL :
COMP MANUFACTURER : CAT
SAMPLE LABEL NUM :
FLUID BRAND/WEIGHT : 15W-40
FLUID TYPE : OIL
EXT WARR EXPIRE DATE :
FUEL CONSUMED :

100 Caterpillar Drive
P.O. Box 321033
Flowood, MS 39232
(769)777-7270
puckett.cat.com

FAX:

PHONE:

SAMPLE TYPE: OIL

SAMPLE SHIP TIME (days) : 10

LAB CONTROL NUMBER	SAMPLE DATE	PROCESS DATE	EQUIPMENT METER	METER ON FLUID	FLUID CHANGED	MAKE UP FLUID	MAKE UP FLUID UNITS	FILTER CHANGED
D440-49175-0006	14-Jun-2019	24-Jun-2019	14424 HR	509 HR	Yes			Yes
SOOT LEVEL CONTINUES TO IMPROVE. OTHER READINGS APPEAR TO BE NORMAL. OIL AND FILTER WERE CHANGED. CONTINUE NORMALLY SCHEDULED SAMPLING.								
D440-49100-0016	06-Apr-2019	10-Apr-2019	13915 HR	295 HR	Yes			Yes
LEAD LEVEL IS SLIGHTLY ELEVATED. OTHER READINGS APPEAR TO BE NORMAL WEAR TREND FOR THIS ENGINE. OIL AND FILTER WERE CHANGED. CONTINUE NORMALLY SCHEDULED SAMPLING.								
D440-49065-0016	28-Feb-2019	06-Mar-2019	13620 HR	463 HR	Yes			Yes
WEAR MEATAL READINGS APPEAR NORMAL. OIL AND FILTER WAS CHANGED. CONTINUE NORMALLY SCHEDULED SAMPLING.								
D440-48348-0013	09-Dec-2018	14-Dec-2018	13157 HR		Yes			Yes
LEAD IS HIGH, OTHER READINGS ARE CONSISTENT WITH TREND. CONTINUE NORMALLY SCHEDULED SAMPLING.								

Wear Metals (ppm)	Cu	Fe	Cr	Al	Pb	Sn	Si	Na	K	B	Mo	Ni	Ag	Ti	V	Mn	Cd	Ca	Mg	Zn	P	Ba
D440-49175-0006	8	37	1	2	3	0	3	0	12	39	0	1	0	0	0	0	0	1583	759	1318	1172	0
D440-49100-0016	6	38	1	1	3	0	2	5	9	38	1	1	0	0	0	0	0	1388	723	1204	1079	0
D440-49065-0016	12	56	1	3	2	0	4	4	9	36	1	1	0	0	0	1	0	1489	705	1240	1102	0
D440-48348-0013	12	78	1	5	7	0	7	6	5	20	0	1	0	0	0	1	0	1472	518	1134	985	0

Oil Condition:	ST	OXI	NIT	SUL	W	A	F	PFC	V100
Particle Count (c/ml)									
D440-49175-0006	61	15	11	24	N	N	N		12.7
D440-49100-0016	65	15	12	23	N	N	N		12.6
D440-49065-0016	86	15	12	24	N	N	N		12.6
D440-48348-0013	83	17	14	28	N	N	P	7.6	11.9

Ag = Silver, Al = Aluminum, B = Boron, Ca = Calcium, Cr = Chromium, Cu = Copper, Fe = Iron, P = Phosphorus, K = Potassium, Li = Lithium, Mg = Magnesium, Mo = Molybdenum, Na = Sodium, Ni = Nickel, Pb = Lead, Si = Silicon, Sn = Tin, S = Sulphur, V = Vanadium, Zn = Zinc, A = Antifreeze, F = Fuel, W = Water, P = Positive, N = Negative, T = Trace, E = Excessive, NIT = Nitration, OXI = Oxidation, ST = Soot, SUL = Sulfation, ISO = ISO Rating, PFC = Percent Fuel Content, PQI = Particle Quantifying Index, NaW = Salt Water, FL Pt = Flash Point, TAN = Total Acid Number, TBN = Total Base Number, H2O = Karl Fisher result, V100 = Viscosity@100C, V40 = Viscosity@40C, PVI = Particle Volume Indicator

Notice: This analysis is intended as an aid in predicting mechanical wear. No guarantee, expressed or implied, is made against failure of this piece of equipment or a component thereof.

Operation and Maintenance Manual

D8T Track-Type Tractor

Media Number -SEBU8550-11

Publication Date -01/02/2013

Date Updated -21/03/2019

i04011573

Specifications

SMCS - 1000; 7000

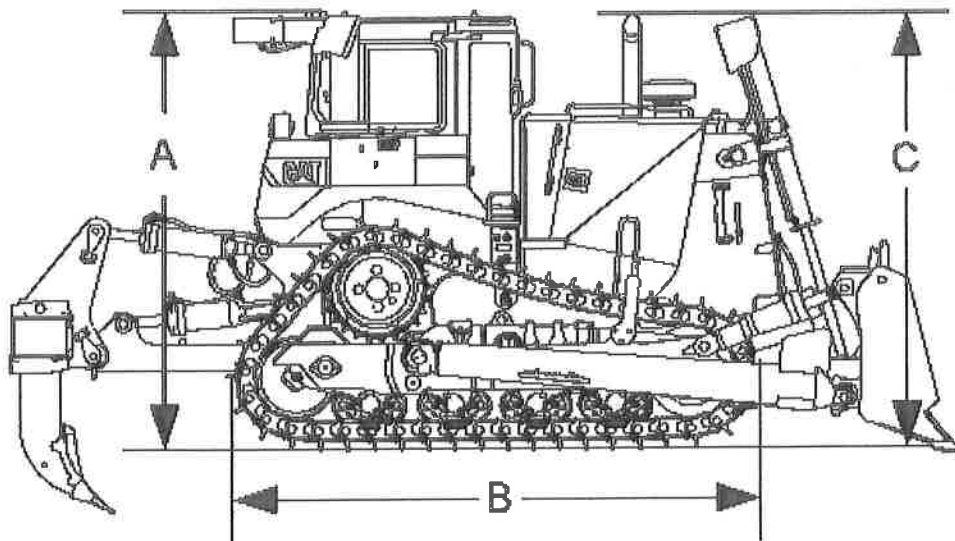
[View Image](#)

Illustration 1

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[View Image](#)

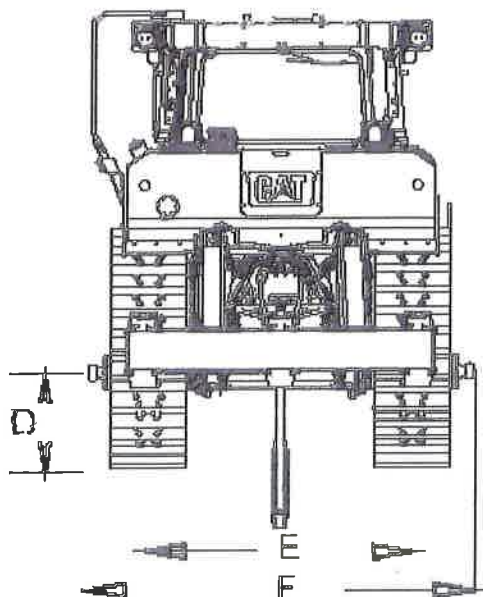


Illustration 2

g02076679

Basic machine specifications are listed in Table 1.

Table 1

D8T Track-Type Tractor	
Engine Power	231.2 kW (310 hp)
Engine (Make and Model)	Cat C-15 Acert
Engine Displacement	15.2 L (928 cubic inch)
Engine Rated Speed	1850 RPM
Engine (No. of Cylinders)	6
Height of Machine	
Top of ROPS (A)	3586 mm (141 inch)
Top of Exhaust (C)	3518 mm (138.5 inch)
Ground Clearance (D)	527.9 mm (20.8 inch)
Height of the Drawbar	528 mm (20.8 inch)
Length of Machine	
Length of Machine ⁽¹⁾ (B)	4632 mm (182 inch)
Length of Track on Ground	3200 mm (126 inch)
Drawbar	325 mm (12.8 inch)

Single Shank Ripper ⁽²⁾⁽³⁾	1829 mm (72 inch)
Multiple Shank Ripper ⁽²⁾⁽³⁾	1623 mm (64 inch)
Width of Machine	
Track Gauge (E)	2083 mm (82 inch)
Width Over Trunnions (F)	3050 mm (120 inch)
Width of Standard Track Shoe	610 mm (24 inch)
Weight of Machine	
D8T shipping weight ⁽⁴⁾	30490 kg (67219 lb)
Operating Weight ⁽⁵⁾	39795 kg (87733 lb)
D8T without a Ripper	35710 kg (78727 lb)
D8T (maximum weight)	45360 kg (100000 lb)
Single Ripper	4085 kg (9006 lb)
Multiple Ripper	4877 kg (10752 lb)
Blade Specification	
8SU Bulldozer Blade ⁽²⁾	
Length	1438 mm (57 inch)
Width	3937 mm (155 inch)
Capacity	8.7 m ³ (11.4 yd ³)
8U Bulldozer Blade ⁽²⁾	
Length	1835 mm (73 inch)
Width	4262 mm (168 inch)
Capacity	11.7 m ³ (15.3 yd ³)
8A Bulldozer Blade ⁽²⁾	
Length	1621 mm (64 inch)
Width	4978 mm (196 inch)
Capacity	4.7 m ³ (6.1 yd ³)

(1) The length of the machine is measured from the trunnion of the tag link to the end of the track (standard).

(2) Add to length of the machine.

(3) Length is measured from the grouser tip with the ripper shank in a vertical position and the ripper tip at the ground.

(4)