



Custom Track Service Summary

**PUCKETT MACHINERY
COMPANY**

LIBERTY FUELS COMPANY 20
(3570400)

Prepared By: Ernie Easterling

Model	D10T	Job Site	--		Inspection Date	05Sep19
Manufacturer	Caterpillar		Left	Right	Next Inspection Date	--
Serial Number	RJG04146	Track Sag	--	--	Next Inspection Hours	--
Reference Number	1610300	Frame Extension	--	--	Underfoot Conditions	
Hour Meter Reading	10,482	Maximum	7.6"	7.6"	Impact	Moderate
Hours Per Week	--	Dry Joints	--	--	Abrasion	Moderate
Total Odometer Reading		Internal Wear	--	--	Moisture	Moderate
Forward Odometer			--	--	Packing	Moderate
Reverse Odometer		Track Shoe Width	--	--	Bushing Allowable Wear	Greater
					Link Allowable Wear	Greater

GROUP	RECOMMENDATION	% WORN	PROJECTED SMU AT 100%	PROJECTED SMU AT 120%	PROJECTED DATE AT 100%	PROJECTED DATE AT 120%
TRACK LINK	Replace	108% (1.65 in)	106% (1.67 in)	--	--	--
TRACK BUSHING	Replace	>120% (0.31 in)	>120% (0.26 in)	--	--	--
TRACK SHOE	Monitor	61% (3.1 in)	60% (3.15 in)	--	--	--
FRONT IDLER		--	--	--	--	--
REAR IDLER		--	--	--	--	--
CARRIER ROLLER		--	--	--	--	--
TRACK ROLLER	Monitor	74% (1.89 in)	73% (1.9 in)	--	--	--
	Monitor	71% (1.94 in)	74% (1.88 in)	--	--	--
	Monitor	73% (1.9 in)	69% (1.96 in)	--	--	--
		--	--	--	--	--
		--	--	--	--	--
		--	--	--	--	--
	Monitor	80% (1.79 in)	66% (2.01 in)	--	--	--
	Monitor	77% (1.84 in)	79% (1.8 in)	--	--	--
SPROCKET	Worn	--	--	--	--	--

CONDITION:Worn

CONDITION:Worn

General Recommendations

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**PUCKETT MACHINERY
COMPANY**

**LIBERTY FUELS COMPANY 20
(3570400)**

Prepared By: Ernie Easterling

Model	D8T	Job Site	--		Inspection Date	05Sep19
Manufacturer	Caterpillar		<u>Left</u>	<u>Right</u>	Next Inspection Date	--
Serial Number	MLN00708	Track Sag	--	--	Next Inspection Hours	--
Reference Number	1610211	Frame Extension	--	--	<u>Underfoot Conditions</u>	
Hour Meter Reading	14,649	Maximum	6"	6"	Impact	Moderate
Hours Per Week	--	Dry Joints	--	--	Abrasion	Moderate
<u>Total Odometer Reading</u>		Internal Wear	--	--	Moisture	Moderate
Forward Odometer			--	--	Packing	Moderate
Reverse Odometer		Track Shoe Width	--	--	Bushing Allowable Wear	Greater
					Link Allowable Wear	Greater

GROUP	RECOMMENDATION	% WORN	PROJECTED SMU AT 100%	PROJECTED SMU AT 120%	PROJECTED DATE AT 100%	PROJECTED DATE AT 120%
TRACK LINK	Monitor	74% (1.44 in)	72% (1.46 in)	--	--	--
TRACK BUSHING	Replace	100% (0.2 in)	98% (0.21 in)	--	--	--
TRACK SHOE	Monitor	70% (2.5 in)	70% (2.49 in)	--	--	--
FRONT IDLER		--	--	--	--	--
REAR IDLER	Good	34% (0.95 in)	29% (0.93 in)	--	--	--
CARRIER ROLLER		--	--	--	--	--
TRACK ROLLER	Monitor	64% (1.9 in)	66% (1.87 in)	--	--	--
	Monitor	70% (1.81 in)	72% (1.78 in)	--	--	--
		--	--	--	--	--
		--	--	--	--	--
		--	--	--	--	--
		--	--	--	--	--
	Monitor	69% (1.82 in)	71% (1.79 in)	--	--	--
	Monitor	71% (1.79 in)	71% (1.8 in)	--	--	--
SPROCKET	Worn	--	--	--	--	--

CONDITION:Worn

CONDITION:Worn

General Recommendations

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Equipment Number	Component Number	Service Type	Description	M S	Current Hours	Interval Hours	Hours Since Last Completed	Date of Last Reading: Operating Hrs/Day:	Projected Due Date	Assigned W/O	Last W/O	Last W/O Comp Date
1610300-0101		0101-01	PM	01	10,482.00	250.00	28.00-	278.00-	09/18/19		547451	07/19/19
1610300-0101		0101-11	PM Level 1	01	10,482.00	500.00	28.00-	528.00-	10/20/19		547450	07/19/19
1610300-0101		0101-12	PM Level 2	01	10,482.00	1,000.00	687.00	313.00-	09/15/19		532375	03/23/19
1610300-0101		0101-13	PM Level 3	01	10,482.00	2,000.00	687.00	1,313.00-	02/28/20		532375	03/23/19
1610300-0101		0101-14	PM Level 4	01	10,482.00	4,000.00	2,596.00	1,404.00-	03/14/20		475863	04/20/18
1610300-0201		0201-21	Valve/Injector Adjust	01	10,482.00	4,000.00	3,906.00	94.00-	08/09/19		421630	04/27/17
1610300-0201		0201-99	X, Eng	01	10,482.00	16,000.00	10,482.00	5,518.00-	01/29/22			
1610300-0301		0301-01	Radiator, Eng	01	10,482.00	26,000.00	10,482.00	15,518.00-	08/23/26			
1610300-0401		0401-99	X, Trans	01	10,482.00	12,000.00	10,482.00	1,518.00-	04/02/20			
1610300-0411		0411-99	X, Conv	01	10,482.00	12,000.00	10,482.00	1,518.00-	04/02/20			
1610300-0431		0431-99	X, L Strg Clutch	01	10,482.00	12,000.00	10,482.00	1,518.00-	04/02/20			
1610300-0432		0432-99	X, R Strg Clutch	01	10,482.00	12,000.00	10,482.00	1,518.00-	04/02/20			
1610300-0441		0441-99	X, L Final Drive	01	10,482.00	15,000.00	10,482.00	4,518.00-	08/15/21			
1610300-0442		0442-99	X, R Final Drive	01	10,482.00	15,000.00	10,482.00	4,518.00-	08/15/21			
1610300-0501		0501-99	X, Tracks	01	10,482.00	3,000.00	3,906.00	906.00	07/24/19		416361	04/27/17

Unit Number	Description	Order Number	Complete Date	Completed Hour Meter	Labor Cost	Labor Hours	Total Cost
1610300-0101	FIRST ENGINE OIL CHANGE	159532	8/17/2012	150	164.34	7	164.34
1610300-0101	PM	164812	9/27/2012	266	1,106.68	37	1,324.19
1610300-0805	REPLACE HYD FILTERS	165786	10/1/2012	270			324.2
1610300-0101	PM	174686	12/20/2012	650	239.28	8	1,749.35
1610300-0103	STANDING WORK ORDER FOR D10T	156049	1/2/2013	679	2,948.37	101.5	3,630.57
1610300-1098	LADDER NOT WORKING (WARRANTY)	182057	1/31/2013	900			
1610300-0101	250 HR PM	184331	2/19/2013	879	239.28	8	1,514.42
1610300-1098	FIRE SUPPRESSION HOSE RUBBING	186379	3/13/2013	958			
1610300-0301	COOLANT LEAK FRONT OF ENG	187852	3/13/2013	958	149.55	5	669.95
1610300-0501	INSPECT UNDERCARRIAGE	183324	4/22/2013	1097			
1610300-0101	1000 HOUR PM	192987	4/25/2013	1120	1,541.92	54.5	2,977.62
1610300-0701	RELOCATE LADDER SWITCH	191405	4/30/2013				1,008.23
1610300-0101	500 HR PM	196591	6/2/2013	1395	354.06	12	1,214.15
1610300-1098	ADD HOSE TO FUEL VENT	190581	7/13/2013	1666			32.22
1610300-0301	RADIATOR SEALS LEAKING	194565	7/13/2013	1666	316.8	10	316.8
1610300-1001	HEADLINER FALLING DOWN	199588	7/13/2013	1666	79.2	2.5	457.97
1610300-0101	250 HOUR PM	201775	7/13/2013	1666	361.72	13.5	1,596.79
1610300-0101	BI WEEKLY PM	205546	7/30/2013	1808	27.33	1	27.33
1610300-0701	ALT BELT	205742	8/1/2013	1818	95.04	3	178.24
1610300-0101	500 HR PM	206982	8/12/2013	1913	589.58	21.5	1,559.96
1610300-0101	250 HR PM	210399	9/5/2013	2144	254.06	8.5	2,282.16
1610300-0501	CHANGE SPROCKET SEGMENTS	209509	9/13/2013	2144	552.36	16.5	10,030.50
1610300-0101	500 HOUR PM	213504	10/3/2013	2401	391.22	10	1,532.46
1610300-0101	500 HOUR PM	217983	10/30/2013	2633	409.24	15.5	1,805.82
1610300-0701	CHANGE LIGHTS OVER TO LED	216990	11/3/2013	2653	63.36	2	3,092.05
1610300-0201	ADJUST VALVES AND INJECTORS	223182	12/4/2013	2815	95.04	3	1,482.23
1610300-0101	2000 HR PM	223180	12/5/2013	2815	1,328.89	43	2,543.55
1610300-0401	CHANGE EVAC FITTING	224583	12/5/2013	2815	31.68	1	31.68
1610300-0701	RELOCATE MASTER SWITCH	219026	12/27/2013	2935	114.9	7.5	1,015.68
1610300-0103	SWO- 1610300 (2013)	178246	1/3/2014	2964	796.86	25.25	1,047.59
1610300-0101	BI-WEEKLY PM 2013	209599	1/6/2014	2999	162.16	9.25	162.16
1610300-0101	250 HR PM	230088	1/11/2014	3037	337.48	11	1,013.74
1610300-1098	FIRE SUPPRESSION ALARM	233724	1/29/2014	3202	300.96	9.5	6,418.61
1610300-1098	FIRE SUPPRESSION ALARM	234162	1/30/2014	3205	67.66	2	67.66
1610300-0501	PIVOT SHAFT SEAL LEAKING	214578	2/19/2014	3243			
1610300-0101	500 HR PM	233638	2/19/2014	3243	697.43	22.5	1,920.03
1610300-1001	REPLACE BELTS	236633	2/19/2014	3243	50.75	1.5	76.74

1610300-0501	FULL UNDERCARRIAGE	219192	2/20/2014	3243	3,067.44	102.5	91,902.76
1610300-1098	LEAK ON BOARDING LADDER	237262	2/20/2014	3243	203.32	9	582.73
1610300-0901	FAB CHOKER BRACKET	237953	2/21/2014	3246	280.98	8	280.98
1610300-0901	LOOSE AT PIVOT	233281	4/4/2014	3513			142.92
1610300-0201	NEW OIL FILTER	239890	4/4/2014	3513			
1610300-0101	250 HR PM	243562	4/4/2014	3513	260.41	8.5	901.46
1610300-1098	MOVE FIRE SUPPRESSION CANISTER	245233	4/4/2014	3513	101.49	3	101.49
1610300-0101	4000 HOUR PM- LEVEL 5	248919	5/7/2014	3800	571.46	18.5	1,693.97
1610300-1001	A/C NOT COOLING	253244	5/21/2014	3850	34.06	1	91.2
1610300-1001	A/C NOT COOLING	253397	5/22/2014	3867	73.86	2	73.86
1610300-1001	A/C COMPRESSOR BAD	253569	5/24/2014	3900	73.86	2	2,018.40
1610300-0803	ACCUMULATION ON RIPPER CYL	254940	6/17/2014	4148	94.08	3	94.08
1610300-0101	ENG OIL CHANGE	255438	6/17/2014	4148	36.93	1	106.22
1610300-1098	REPLACE WIGGINS DUST CAP	256928	6/17/2014	4148	34.52	1	58.23
1610300-0101	LEVEL 1 INSPECTION	257340	6/17/2014	4148	211.94	6	211.94
1610300-0701	REPLACE LIGHT	261270	7/10/2014	4410	43.15	1.25	477.04
1610300-0101	ENGINE OIL CHANGE	260764	7/11/2014	4433	148.18	4.5	454.67
1610300-1098	FIRE SUPPRESSION BOTTLE LOOSE	262035	7/16/2014	4478	71.45	2	71.45
1610300-0101	BI-WEEKLY PM - 2014	229460	7/18/2014	4486	69.04	2	69.04
1610300-0101	LEVEL 1 PM	262176	7/24/2014	4516	335.72	10	1,141.60
1610300-0101	ENGINE OIL CHANGE	266400	8/23/2014	4675	41	1.5	109.18
1610300-1098	MIROR BROKE ON RT CYLINDER	270209	9/9/2014	4730	49.41	1.5	271.16
1610300-0101	LEVEL 2 PM	273436	9/28/2014	4763	264.66	6	1,183.31
1610300-0201	ALTERNATOR BELT SQUEALING	273930	9/28/2014	4763			
1610300-0101	ENGINE OIL CHANGE	276143	10/19/2014	4925	74.45	2.5	73.86
1610300-0201	TURBO LEAKING	278062	11/2/2014	4925	944.89	27	8,883.82
1610300-0805	HYD HOSE LEAKING/WORN	278065	11/2/2014	4925	813.64	23	4,936.65
1610300-0201	REPLACE RT TURBO	280393	11/8/2014	4939	500.15	14	6,142.97
1610300-0201	MECH FUEL PUMP GEAR BROKE	277287	11/9/2014	4939	6,357.48	179.5	17,351.33
1610300-0801	O-RING BLEW ON PUMP	280850	11/11/2014	4960	352.55	10	352.55
1610300-0103	SWO 1610300 (2014)	229744	12/30/2014	5138	1,442.00	45.5	2,247.43
1610300-0701	REPLACE BATT	292652	1/26/2015	5155	153.06	4	819.11
1610300-0701	CK CHARGING SYSTEM	292972	1/28/2015	5184	221.58	6	221.58
1610300-0101	ENGINE OIL CHANGE	286917	1/30/2015	5187	64.36	2	131.59
1610300-0701	REPLACE STARTER	293458	1/31/2015	5187	925.8	26.5	2,433.41
1610300-0101	LEVEL 1 PM	297097	2/23/2015	5268	674.61	20.5	1,544.47
1610300-1001	REPLACE SEAT BELT	303928	4/4/2015	5268	36.82	1	214.85
1610300-1098	PIP UPDATES	315405	6/10/2015	5269			

1610300-0103	SWO 1610300 (2015)	287726	12/30/2015	-5287	46.14	1.25	78.27
1610300-0701	DEAD BATTERY/WONT CRANK	349787	2/6/2016	5297	147.25	4	147.25
1610300-0701	ELECTRICAL DAMAGE AT FUSE BOX	360204	4/14/2016	5355	788.47	18	3,573.48
1610300-1001	A/C NOT COOLING	364518	5/11/2016	5400	55.22	1.5	113.71
1610300-0101	ENGINE OIL CHANGE	366283	5/26/2016	5432	94.68	2	94.68
1610300-0701	LEFT SIDE LIGHT OUT	371087	6/27/2016	5468			431.67
1610300-0701	R.H. FRONT LIGHT OUT	377430	8/14/2016	5547	35.62	1	470.56
1610300-0101	LEVEL 3 PM	386593	10/26/2016	5683	1,051.04	29	1,936.72
1610300-0101	ENGINE OIL CHANGE	386594	10/26/2016	5682	99.49	3	183.79
1610300-1098	REPLACE FUEL CAP	387483	10/26/2016	5683			78.77
1610300-1098	INSTALL FIRE SUPR SHUT DOWN	392617	12/13/2016	5810			
1610300-0103	SWO 1610300 (2016)	344744	1/4/2017	5867	295	8	596.92
1610300-0101	ENGINE OIL CHANGE	404571	1/18/2017	6002	29.51	1	112.89
1610300-1098	TOE STRAP HOOKS	405750	1/18/2017	5969	580.98	16.5	580.98
1610300-0805	TILT CYLINDER LINE BLOWN	406014	1/18/2017	6002	84.73	2.5	84.73
1610300-0201	REPLACE FUEL FILTERS	406114	1/19/2017	6020	47.54	1	151.31
1610300-0701	WIRE UP SWITCH	400482	2/10/2017	6236			490.6
1610300-1098	ADJUST BOTH TRACKS	404517	2/10/2017	6236	110.43	3	110.43
1610300-0701	MASTER SWITCH	406547	2/10/2017	6236	29.51	1	133.16
1610300-1098	PRE-LUBE ERROR	409401	2/10/2017	6236			123.12
1610300-0101	LEVEL 1 PM	409425	2/10/2017	6236	752.84	22	1,445.21
1610300-0101	ENGINE OIL CHANGE	409426	2/10/2017	6236	110.43	3	198.42
1610300-1098	REPL FRONT PUSH ARM BUSHINGS	404510	2/14/2017	6237	883.06	25.5	6,904.03
1610300-0201	AC COMPRESSOR MOUNTING	410013	2/15/2017	6229	452.14	13	2,318.50
1610300-0301	COOLANT LEAK	410011	3/18/2017	6427			611.62
1610300-1098	AIR VENT MISSING	410015	3/18/2017	6466	18.41	0.5	47.22
1610300-0805	RIPPER CREEPING DOWN	414820	3/18/2017	6466	126.44	3.5	1,208.03
1610300-1001	REPLACE SEAT BELT	414919	3/18/2017	6466	51.62	1.5	250.36
1610300-0101	ENGINE OIL CHANGE	415186	3/21/2017	6498	191.76	6	261.75
1610300-0501	FULL UNDERCARRIAGE	416361	4/27/2017	6576	2,107.47	59	34,831.81
1610300-0201	ADJUST VALVES AND INJECTORS	421628	4/27/2017	6576			
1610300-0101	ENGINE OIL CHANGE	421629	4/27/2017	6576			
1610300-0201	ADJUST VALVES AND INJECTORS	421630	4/27/2017	6576			
1610300-0101	LEVEL 3 PM	421631	4/27/2017	6573	127.64	4	1,773.72
1610300-0701	FUEL LEVEL SENSOR CODE	417987	5/2/2017	6573			68.18
1610300-0101	ENGINE OIL CHANGE	423623	5/4/2017	6654	18.64	0.5	348.96
1610300-0301	COOLANT LEAK	423934	5/6/2017	6693	409.47	8.5	409.47
1610300-0201	ENGINE VALVE/HEAD DAMAGE	418068	5/19/2017	7025	1,587.39	44	26,301.95

1610300-0101	ENGINE OIL CHANGE	425422	5/21/2017	7036	31.91	1	116.67
1610300-0101	LEVEL 1 PM	427440	5/29/2017	7121	352.94	10	929.47
1610300-1098	BAD SOS TRANS	427736	6/3/2017	7229	103.98	2	277.54
1610300-1098	BAD SOS HYDRAULIC SYSTEM	427746	6/3/2017	7229	26	0.5	42.35
1610300-0101	ENGINE OIL CHANGE	428890	6/11/2017	7342	472.49	13.5	710.45
1610300-0103	CAB ROOF LINER FALLING DOWN	430567	6/29/2017	7513	37.27	1	168.32
1610300-1098	LADER GEAR BOX SEEPING	425963	6/30/2017	7513	582.72	15	1,035.20
1610300-0101	LEVEL 2 PM	431667	6/30/2017	7513	302.11	8	878.78
1610300-1098	INSPECT/REPAIR FIRE SUPPRESSION	423706	8/5/2017	6713			1,020.78
1610300-0101	PRE-PM INSPECTION (2017)	413155	12/12/2017	7563	549.79	15	671.16
1610300-0103	WIGGINS DUST CAP MISSING	432152	12/12/2017	7563			64.09
1610300-0103	SWO 1610300 (2017)	402585	12/14/2017	-7563	841.26	21	5,132.59
1610300-1098	SOS 2017	431044	12/26/2017	7563			
1610300-1098	ENGINE SOS	432736	12/26/2017	7563	37.27	1	37.27
1610300-0101	ENGINE OIL CHANGE	443961	12/26/2017	7563			
1610300-1098	FUEL LINE LEAKING	472440	4/20/2018	7886	269.79	6	337.95
1610300-0101	LEVEL 4 PM	475863	4/20/2018	7886	366.25	8.5	1,023.03
1610300-0101	ENGINE OIL CHANGE	475864	4/20/2018	7886			49.11
1610300-0201	REPAIR ENGINE OVERHEATING	537039	4/25/2018	7905			59.9
1610300-0201	ENGINE FAILURE	442112	5/5/2018	7555	88.41	2	337.93
1610300-0805	RIPPER HOSE BLOWN	482987	5/22/2018	8028			
1610300-0101	ENGINE OIL CHANGE	482927	6/11/2018	8106	41.42	1	577.36
1610300-1098	FUEL FILTERS	491033	7/14/2018	8288	97.37	1.5	165.57
1610300-1098	REPAIR FUEL LEAK	491655	7/19/2018	8359	186.39	4.5	1,037.67
1610300-0701	REPLACE MASTER SWITCH	491714	7/19/2018	8359	72.77	1.5	178.74
1610300-0101	LEVEL 1 PM	491377	7/31/2018	8451	279.3	7	979.1
1610300-1098	FUEL GAUGE INOP AT TIMES	491029	8/1/2018	8451			
1610300-1098	BELT SQUEALS ON START UP	491030	8/1/2018	8451			1,103.47
1610300-0101	ENGINE OIL CHANGE	491378	8/1/2018	8451			227.6
1610300-0701	REPLACE BACK LEFT LIGHT	498648	9/4/2018	8653	82.84	2	82.85
1610300-0101	ENGINE OIL CHANGE	500159	9/21/2018	8802	165.68	4	254.23
1610300-0101	LEVEL 2 PM	500160	9/21/2018	8802	239.4	6	1,744.13
1610300-0101	ENGINE OIL CHANGE	505422	10/22/2018	9089	99.75	2.5	185.51
1610300-1098	REPLACE FUEL FILTERS	512201	11/21/2018	9238			100.32
1610300-0101	LEVEL 1 PM	513740	12/8/2018	9319	538.65	13.5	1,927.46
1610300-0101	ENGINE OIL CHANGE	513742	12/8/2018	9319	39.9	1	125.66
1610300-1098	SWO-2018	483258	12/23/2018	9359	242.5	5.5	242.5
1610300-1098	MASTER SWITCH KEY	519889	1/6/2019	9360	59.85	1.5	59.85

1610300-0805	BUSTED RIPPER HYD. HOSE	520149	1/11/2019	9439	239.4	6	995.02
1610300-0101	ENGINE OIL CHANGE	522786	1/23/2019	9504	39.9	1	1,176.84
1610300-1098	FUEL FILL HOSE BAD	523486	1/24/2019	9504	79.8	2	509.61
1610300-0701	REPLACE FRONT LIGHT	524343	1/28/2019	9546	19.95	0.5	448.31
1610300-1098	FUEL FILTER PLUGGED	525516	2/2/2019	9585	39.9	1	109.4
1610300-0701	REPLACE BACK UP ALARM	525574	2/3/2019	9554			199.5
1610300-0805	HYD FAN RETURN FILTER	523977	2/16/2019	9645	26	0.5	89.44
1610300-1098	REPLACE FUEL CAP	527862	2/25/2019	9675	39.9	1	124.52
1610300-0501	REPLACE SPROCKET SEGMENTS	527807	2/28/2019	9677	1,182.82	27	4,420.31
1610300-1098	REPLACE LADDER SEALS	527917	3/1/2019	9677	39.9	1	436.95
1610300-1001	AFEX MONITOR LOOSE	533431	3/22/2019	9786	19.95	0.5	19.95
1610300-0101	LEVEL 3 PM	532375	3/23/2019	9795	659.56	13.5	1,349.69
1610300-0101	ENGINE OIL CHANGE	532376	3/23/2019	9795	77.99	1.5	179.72
1610300-1098	GRIND BURS OFF RIPPER	537760	4/16/2019	9835			
1610300-0101	ENGINE OIL CHANGE	540503	5/29/2019	10128	103.55	2.5	378.75
1610300-0701	REPLACE BATTERIES	544509	5/30/2019	10177			
1610300-0101	LEVEL 1 PM	547450	7/19/2019	10510			739.32
1610300-0101	ENGINE OIL CHANGE	547451	7/19/2019	10510			87.56

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COMPANY NAME : LIBERTY FUELS COMPANY
 CUSTOMER EQUIP NUM : 1610300
 SERIAL NUM :
 COMPARTMENT MODEL :
 COMP MANUFACTURER :
 SAMPLE LABEL NUM :
 FLUID BRAND/WEIGHT : CATELC
 FLUID TYPE :
 EXT WARR EXPIRE DATE :
 FUEL CONSUMED :
 PHONE :
 FAX :
 SAMPLE TYPE : COOLANT - RAD1_MET
 SAMPLE SHIP TIME (days) : 5
 EXT WARR NUMBER :
 JOB SITE :
 MODEL : D10T
 100 Caterpillar Drive
 P.O. Box 321033
 Flowood, MS 39232
 (769) 777-7270
 puckett.cat.com

LAB CONTROL NUMBER	SAMPLE DATE	PROCESS DATE	EQUIPMENT METER	METER ON FLUID	FLUID CHANGED	MAKE UP FLUID	MAKE UP FLUID UNITS
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D440-49087-1001	23-Mar-2019	28-Mar-2019	9795 HR	9795 HR	Unknown		
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Partially Magnetic Solids may indicate localized hot spots in the cooling system. All other level 1 tests appear normal for ELC. No action required. Continue to sample.

D440-48270-1008	21-Sep-2018	27-Sep-2018	8088 HR	8088 HR	Unknown		
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All level 1 readings are within the acceptable range for ELC. Continue to use this coolant. Sample again at the regular interval to monitor the cooling system.

D440-48215-1001	31-Jul-2018	03-Aug-2018	8451 HR	8451 HR	Unknown		
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All level 1 readings are within the acceptable range for ELC. Continue to use this coolant. Sample again at the regular interval to monitor the cooling system.

D440-47179-1004	25-Jun-2017	28-Jun-2017	7471 HR	7471 HR	Unknown		
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All level 1 tests appear normal for this coolant. Continue to use this coolant. Sample again at the regular interval to monitor the cooling system.

Dist	Al	Cu	Fe	Pb	K	Na	Sn	Zn	CaC	MgC	TH	MoO4	SiO3	BO3	PO4	BP	FP	GL	pH	CON
D440-49087-1001	0	1	0	0	5859	828	0	0	10	8	18	879	44	8	21	107	-34	48	7.3	4993
D440-48270-1008	0	1	0	0	5643	777	0	0	8	3	11	811	31	3	0	106	-34	47	7.3	4752
D440-48215-1001	0	0	0	0	5419	758	0	0	8	3	12	763	30	6	9	106	-34	47	7.5	4956
D440-47179-1004																107	-38	51	8.1	5556

Dist	NO2	Odor	Color	App	Foam	Oil	Paint	PApp	PCol	PProp
D440-49087-1001	262	nom	red/brow	clear	nom	none	trace	fine	bm sol	mag
D440-48270-1008	1621	nom	red	clear	nom	none	none			
D440-48215-1001	420	nom	red	clear	nom	none	trace	fine	bm sol	mag
D440-47179-1004	541	nom	red	clear	nom	none	none			

Al = Aluminum, Cu = Copper, Fe = Iron, K = Potassium, Na = Sodium, Pb = Lead, Sn = Tin, V = Vanadium, Zn = Zinc, BO3 = Borate, CaC = Ca as CaCO3, MgC = Mg as CaCO3, MoO4 = Molybdate, PO4 = Phosphate, SiO3 = Silicate, TH = Total Hardness, CL = Chloride, CO3 = Carbonate, GLO = Glycolate, NO2 = Nitrite, NO3 = Nitrate, PO4 = Phosphate, SAC = Sulfate, SO4 = Sulfate, TT = Toluene, BP = Boil Point(°C), FP = Freeze Point(°C), GL = Glycol, CON = Conductivity, App = Appearance, Paint = Precipitate Amount, PApp = Precipitate Appearance, PCol = Precipitate Color, PProp = Precipitate Property/CType = Coolant Type

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.

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COMPANY NAME: LIBERTY FUELS COMPANY
 SHOP JOB NUM: 1610300
 CUSTOMER EQUIP NUM: 1610300
 COMP SERIAL NUM: 1610300
 COMPARTMENT MODEL: ENGINE
 SERIAL NUMBER: RJG04146
 COMP MANUFACTURER: CATERPILLAR
 MANUFACTURER: CATERPILLAR
 MODEL: D10T
 FLUID BRAND/WEIGHT: 15W-40
 FLUID TYPE: OIL
 EXT WARR EXPIRE DATE: 7/69/777-7270
 FUEL CONSUMED: 5
 SAMPLE SHIP TIME (days): 5
 EXT WARR NUMBER: 100 Caterpillar Drive
 P.O. Box 321033
 Flowood, MS 39232
 (769)777-7270
 puckett.cat.com

LAB CONTROL NUMBER	SAMPLE DATE	PROCESS DATE	EQUIPMENT METER	METER ON FLUID	FLUID CHANGED	MAKE UP FLUID	MAKE UP FLUID UNITS	FILTER CHANGED
D440-49204-0016	18-Jul-2019	23-Jul-2019	10510 HR	382 HR	Yes			Yes
IRON LEVEL HAS INCREASED. OTHER READINGS APPEAR TO BE NORMAL. OIL AND FILTER WERE CHANGED. CONTINUE NORMALLY SCHEDULED SAMPLING.								
No Action Required								
D440-49154-0017	24-May-2019	03-Jun-2019	10128 HR	333 HR	Yes			Yes
NORMAL WEAR METAL READINGS. NO PROBLEMS PRESENTLY ASSOCIATED WITH THIS SAMPLE. CONTINUE SAMPLING AT THE NORMAL INTERVAL.								
No Action Required								
D440-49087-0015	23-Mar-2019	28-Mar-2019	9735 HR	211 HR	Yes			Yes
LEAD LEVEL IS SLIGHTLY ELEVATED. OTHER READINGS APPEAR TO BE NORMAL. OIL AND FILTER WERE CHANGED. WILL MONITOR AT THE NEXT REGULAR SCHEDULED OIL SERVICE. CONTINUE NORMALLY SCHEDULED SAMPLING.								
No Action Required								
D440-49028-0002	23-Jan-2019	28-Jan-2019	9584 HR	265 HR	Yes			Yes
NORMAL WEAR METAL READINGS. NO PROBLEMS PRESENTLY ASSOCIATED WITH THIS SAMPLE. CONTINUE SAMPLING AT THE NORMAL INTERVAL.								
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
D440-49204-0016	3	55	1	1	0	0	4	1	3	44	0	0	0	0	1	0	0	1447	688	1196	1053	0
D440-49154-0017	3	28	1	0	1	1	2	1	6	63	0	0	0	0	0	0	0	1527	736	1321	1158	0
D440-49087-0015	1	20	1	1	3	1	3	1	4	63	0	0	0	0	0	0	0	1605	695	1329	1213	0
D440-49028-0002	1	13	0	0	0	0	2	2	3	75	0	0	0	0	0	0	0	1487	731	1239	1104	0

Oil Condition / Particle Count (ct/ml)	ST	OXI	NTT	SUL	W	A	F	VI00
D440-49204-0016	33	13	8	21	N	N	N	13.2
D440-49154-0017	17	13	8	20	N	N	N	13.0
D440-49087-0015	9	13	8	20	N	N	N	13.0
D440-49028-0002	7	13	7	20	N	N	N	13.2

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, NTT = Nitration, OXI = Oxidation, ST = Soot, SUL = Sulfation, ISO = ISO Rating, PFC = Percent Fuel Content, PQL = Particle Quantity Index, Nsw = Salt Water, FL Pt = Flash Point, TAN = Total Acid Number, TBN = Total Base Number, H2O = Karl Fisher result, VI00 = 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.

Puckett



COMPANY NAME: LIBERTY FUELS COMPANY
 CUSTOMER EQUIP NUM: 1610300
 SERIAL NUMBER: RUG04146
 MANUFACTURER: CATERPILLAR
 MODEL: D10T
 JOB SITE:
 EXT WARR NUMBER:
 FUEL CONSUMED:

SHOP JOB NUM:
 COMP SERIAL NUM:
 COMPARTMENT MODEL:
 COMP MANUFACTURER:
 SAMPLE LABEL NUM:
 FLUID BRAND/WEIGHT: 30
 FLUID TYPE: OIL
 EXT WARR EXPIRE DATE:
 Puckett, cat.com

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

LAB CONTROL NUMBER	SAMPLE DATE	PROCESS DATE	EQUIPMENT METER	METER ON FLUID	FLUID CHANGED	MAKE UP FLUID	MAKE UP FLUID UNITS	FILTER CHANGED
D440-49204-0035	18-Jul-2019	23-Jul-2019	10510 HR	715 HR	No			Yes
NORMAL WEAR METAL READINGS. NO PROBLEMS PRESENTLY ASSOCIATED WITH THIS SAMPLE. CONTINUE SAMPLING AT THE NORMAL INTERVAL.								
No Action Required								
D440-49087-0030	23-Mar-2019	28-Mar-2019	9795 HR	1707 HR	Yes			Yes
NORMAL WEAR METAL READINGS. OIL AND FILTER WERE CHANGED. CONTINUE NORMALLY SCHEDULED SAMPLING.								
No Action Required								
D440-48348-0038	07-Dec-2018	14-Dec-2018	9319 HR	1231 HR	No			Yes
NORMAL READINGS. CONTINUE NORMALLY SCHEDULED SAMPLING.								
No Action Required								
D440-48270-0039	22-Sep-2018	27-Sep-2018	8088 HR	209 HR	Yes			Yes
NORMAL WEAR METAL READINGS. NO PROBLEMS PRESENTLY ASSOCIATED WITH THIS SAMPLE. CONTINUE SAMPLING AT THE NORMAL INTERVAL.								
No Action Required								

Wear Metals (ppm)																
Cu	Fe	Cr	Al	Pb	Sn	Si	Na	K	B	Mo	Ni	Ag	Ti	V	Mn	Cd
7	6	0	1	0	0	2	1	1	9	1	0	0	0	0	0	2449
																7
																973
																865
																0
D440-48204-0035	7	6	0	1	0	0	2	1	1	9	1	0	0	0	0	2449
																7
																973
																865
																0
D440-49087-0030	17	9	0	2	1	3	1	4	14	1	0	0	0	0	0	2055
																6
																853
																714
																0
D440-48348-0038	18	7	0	1	3	0	2	1	12	0	0	0	0	0	0	2219
																5
																939
																801
																0
D440-48270-0039	38	7	0	1	1	0	2	2	1	11	0	0	0	0	0	1849
																4
																805
																697
																0

Off Condition:
 Particle Count (ct/cm)
 ST OXI NIT SUL W A V100 ISO 4u 6u 10u 14u 18u 21u 38u 50u

D440-48204-0035 0 3 4 13 N 11.8 1916/1 4642 497 76 18 7 6 4 3

D440-49087-0030 0 4 4 14 N 12.7 2217/12 25403 686 76 27 12 7 1 1

D440-48348-0038 0 3 4 13 N 12.2 2317/12 41290 1011 61 24 13 9 2 1

D440-48270-0039 0 4 4 14 N 12.1 2115/11 13877 196 38 19 11 8 2 1

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, ISO = ISO Rating, PFC = Percent Fuel Content, PCI = Particle Quantifying Index, NetW = 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 : 1610300
 COMPARTMENT NAME : HYDRAULIC SYSTEM
 SERIAL NUMBER : RJG04146
 MANUFACTURER : CATERPILLAR
 MODEL : D10T
 JOB SITE :
 EXT WARR NUMBER :
 SHOP JOB NUM :
 COMP SERIAL NUM :
 COMPARTMENT MODEL :
 COMP MANUFACTURER :
 SAMPLE LABEL NUM :
 FLUID BRAND/WEIGHT :
 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

LAB CONTROL NUMBER	SAMPLE DATE	PROCESS DATE	EQUIPMENT METER	METER ON FLUID	FLUID CHANGED	MAKE UP FLUID	MAKE UP FLUID UNITS	FILTER CHANGED
D440-49204-0045	18-Jul-2019	23-Jul-2019	10510 HR	No				Yes
NORMAL WEAR METAL READINGS. PARTICLE COUNT ANALYSIS IS JUST ABOVE THE RECOMMENDED 18/15 LEVEL. FILTER WAS CHANGED. CONTINUE NORMALLY SCHEDULED SAMPLING.								
No Action Required								
D440-49087-0037	23-Mar-2019	28-Mar-2019	9795 HR	6797 HR	No			Yes
NORMAL READINGS. FILTER WAS CHANGED. CONTINUE NORMALLY SCHEDULED SAMPLING.								
No Action Required								
D440-48348-0048	07-Dec-2018	14-Dec-2018	9319 HR	6321 HR	No			Yes
NORMAL READINGS. CONTINUE NORMALLY SCHEDULED SAMPLING.								
No Action Required								
D440-48270-0040	21-Sep-2018	27-Sep-2018	8088 HR	5090 HR	No			Yes
COPPER ALONE USUALLY INDICATES COOLER CORE LEACHING WHICH IS NOT A WEAR PROBLEM. OTHER READINGS APPEAR TO BE NORMAL. FILTER WAS CHANGED. 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
D440-49204-0045	56	6	0	3	1	0	7	3	2	2	0	0	0	0	0	0	0	2148	6	1058	813	0
D440-49087-0037	49	4	0	3	5	0	5	1	4	1	1	0	0	0	0	0	0	2179	6	1064	813	0
D440-48348-0048	110	5	0	3	4	0	5	3	2	2	0	0	0	0	0	0	0	2275	8	1061	835	0
D440-48270-0040	113	3	0	2	2	1	4	2	2	2	0	0	0	0	0	0	0	2310	6	1102	866	0
Oil Condition / Particle Count (ct/ml)																						
	ST	OXI	NIT	SUL	W	A	V100	ISO	4u	6u	10u	14u	18u	21u	38u	50u						
D440-49204-0045	0	3	4	13	N	N	6.5	22/19/14	20378	3742	719	149	42	23	3	1						
D440-49087-0037	0	3	4	13	N	N	6.5	22/18/13	32104	1342	200	61	24	13	2	1						
D440-48348-0048	0	3	4	12	N	N	6.5	20/16/12	9753	555	78	28	15	9	1	1						
D440-48270-0040	0	3	4	12	N	N	6.4	18/15/12	1441	292	83	34	18	11	1	0						

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, N = Negative, T = Trace, E = Excessive, NIT = Nitration, OXI = Oxidation, ST = ISO Rating, PFC = Percent Fuel Content, PCL = Particle Counting Index, NaW = Salt Water, FL Pt = Flash Point, TAN = Total Acid 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.

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COMPANY NAME : LIBERTY FUELS COMPANY
 CUSTOMER EQUIP NUM : 1610300
 COMPARTMENT NAME : FINAL DRIVE REAR RIGHT
 SERIAL NUMBER : RJG04146
 MANUFACTURER : CATERPILLAR
 MODEL : D10T
 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 :
 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): **5**

LAB CONTROL NUMBER	SAMPLE DATE	PROCESS DATE	EQUIPMENT METER	METER ON FLUID	FLUID CHANGED	MAKE UP FLUID	MAKE UP FLUID UNITS	FILTER CHANGED
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D440-49204-0065	18-Jul-2019	23-Jul-2019	10510 HR	715 HR	Yes			
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NORMAL WEAR METAL READINGS. NO PROBLEMS PRESENTLY ASSOCIATED WITH THIS SAMPLE. CONTINUE SAMPLING AT THE NORMAL INTERVAL.

No Action Required

D440-49087-0050	23-Mar-2019	28-Mar-2019	9795 HR	476 HR	Yes			
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NORMAL WEAR METAL READINGS. NO PROBLEMS PRESENTLY ASSOCIATED WITH THIS SAMPLE. CONTINUE SAMPLING AT THE NORMAL INTERVAL.

No Action Required

D440-48348-0069	07-Dec-2018	14-Dec-2018	9319 HR	1231 HR	Yes			
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NORMAL READINGS. CONTINUE NORMALLY SCHEDULED SAMPLING.

No Action Required

D440-48270-0095	21-Sep-2018	27-Sep-2018	8088 HR	0	Yes			
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HOUR METER READING IS LESS THAN PREVIOUS SAMPLE. PLEASE VERIFY METER READING. NORMAL WEAR METAL READINGS. NO PROBLEMS PRESENTLY ASSOCIATED WITH THIS SAMPLE. CONTINUE SAMPLING AT THE NORMAL INTERVAL.

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
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D440-49204-0065	0	21	0	0	0	0	3	3	0	87	0	3	0	0	0	0	0	297	1	18	299	0
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D440-49087-0050	0	17	0	0	0	0	5	2	2	79	2	2	0	0	0	0	0	343	0	33	320	0
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D440-48348-0069	2	20	0	1	1	1	6	3	0	71	1	1	0	0	0	0	0	510	1	147	328	0
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D440-48270-0095	1	14	0	0	0	2	2	2	1	68	0	0	0	0	0	0	0	231	0	21	232	0
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Oil Condition / Particle Count (cu)	ST	OXI	NIT	SUL	W	V100	ISO	4μ	6μ	10μ	14μ	18μ	21μ	38μ	50μ
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D440-49204-0065	0	9	4	15	N	25.2	23/20/14	46551	5797	289	83	38	25	5	1
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D440-49087-0050	0	9	4	15	N	25.2	22/19/11	33588	3139	128	18	4	2	0	0
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D440-48348-0069	0	7	4	17	N	22.6	23/20/13	54181	7850	311	62	19	10	1	0
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D440-48270-0095	0	9	4	15	N	25.3	23/20/13	44447	7741	182	44	20	11	2	1
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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 = 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, PFI = Particle Quantifying Index, NAW = Salt Water, FL = Flash Point, TAN = Total Acid Number, TBN = Total Base Number, V100 = Viscosity@100C, V40 = Viscosity@40C, PVI = Particle Volume Indicator

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FAX:
PHONE:
SAMPLE TYPE: **OIL**
SAMPLE SHIP TIME (days): **5**

COMPANY NAME: **LIBERTY FUELS COMPANY**
CUSTOMER EQUIP NUM: **1610300**
COMPARTMENT NAME: **FINAL DRIVE REAR LEFT**
SERIAL NUMBER: **RJG04146**
MANUFACTURER: **CATERPILLAR**
MODEL: **D10T**
JOB SITE:
EXT WARR NUMBER:
SHOP JOB NUM:
COMP SERIAL NUM:
COMPARTMENT MODEL:
COMP MANUFACTURER:
SAMPLE LABEL NUM:
FLUID BRAND/WEIGHT: **80**
FLUID TYPE: **OIL**
EXT WARR EXPIRE DATE:
FUEL CONSUMED:

100 Caterpillar Drive
P.O. Box 321033
Flowood, MS 39232
(769)777-7270
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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
D440-49204-0064	18-Jul-2019	23-Jul-2019	10510 HR	715 HR	Yes			
NORMAL WEAR METAL READINGS. NO PROBLEMS PRESENTLY ASSOCIATED WITH THIS SAMPLE. CONTINUE SAMPLING AT THE NORMAL INTERVAL.								
No Action Required								
D440-49123-0056	30-Apr-2019	03-May-2019	9965 HR	170 HR	No			
NORMAL WEAR METAL READINGS. NO PROBLEMS PRESENTLY ASSOCIATED WITH THIS SAMPLE. CONTINUE SAMPLING AT THE NORMAL INTERVAL.								
No Action Required								
D440-49087-0049	23-Mar-2019	28-Mar-2019	9795 HR	476 HR	Yes			
IRON LEVEL IS ELEVATED. ALUMINUM AND SILICON RATIO INDICATE DIRT ENTRY. OIL WAS CHANGED. CHECK FOR ANY LEAKS ALLOWING DIRT AND MAKE ANY NEEDED REPAIRS. IF REPAIRS ARE NEEDED, FLUSH COMPARTMENT AFTERWARDS AND REFILL WITH THE APPROPRIATE FLUID. RESAMPLE AT THE NEXT REGULAR SCHEDULED OIL SERVICE.								
Action Required								
D440-48348-0068	07-Dec-2018	14-Dec-2018	9319 HR	1231 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
D440-49204-0064	1	81	1	3	0	0	26	3	1	77	0	5	0	0	0	1	0	428	2	76	344	0
D440-49123-0056	0	43	1	2	0	0	17	5	0	88	0	1	0	0	0	0	0	302	2	14	306	0
D440-49087-0049	1	152	2	20	1	0	117	3	7	81	2	5	0	1	0	2	0	316	1	29	306	0
D440-48348-0068	0	11	0	0	2	2	3	3	0	80	0	2	0	0	0	0	0	292	2	33	271	0

Oil Condition:	ST	OXI	NTT	SUL	W	V100	ISO	4µ	6µ	10µ	14µ	18µ	21µ	38µ	50µ	
D440-49204-0064	0	9	4	4	15	N	24.2	23/22/14	77845	33765	1638	115	26	13	2	1
D440-49123-0056	0	8	4	4	14	N	25.6	23/22/16	59654	28594	3369	446	89	39	3	1
D440-49087-0049	0	9	4	4	16	N	25.3	23/22/17	58475	38836	10790	687	38	14	1	0
D440-48348-0068	0	8	4	4	14	N	25.4	22/19/12	29536	3367	165	32	10	4	1	0

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, NTT = Nitration, OXI = Oxidation, ST = Soot, SUL = Sulfation, ISO = ISO Rating, PFC = Percent Fuel Content, PCH = Particle Counting Index, New = Salt Water, FL = 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

D10T Track-Type Tractor

Media Number -SEBU7754-19

Publication Date -01/04/2015

Date Updated -06/03/2019

i07700606

Specifications

SMCS - 7000

Intended Use

This machine is a Track-Type Tractor that is classified as a "Tractor-dozer". The machine is earthmoving equipment that is described in ISO 6165:2006. The machine propels the track forward. Also, the machine propels the track rearward. This action allows the machine to move independently. The machine uses equipment that is either a dozing attachment which cuts, moves, and grades material through forward motion of the machine or a mounted attachment that is used to exert a push or a pull force such as a ripper or towing winch. Additional applications include pushing scrapers during loading and pulling towed equipment by using a drawbar.

Application/Configuration Restrictions

The Maximum approved Operating Weight: 83160 kg (183336 lb)

Maximum drawbar pull 102200 kg (225312 lb)

Maximum vertical drawbar load 31770 kg (70041 lb)

The maximum line pull for the winch is 617413 N (138800 lbf).

The maximum slope that has the proper lubrication is 100 percent or 45 degrees.

The capability of the brake is equal to the ROPS capability under a 45 degree slope.

Use the machine only in environments that are not explosive with gases.

Special attachments and operating instructions are required for waste handling applications and other custom configurations.

[View Image](#)

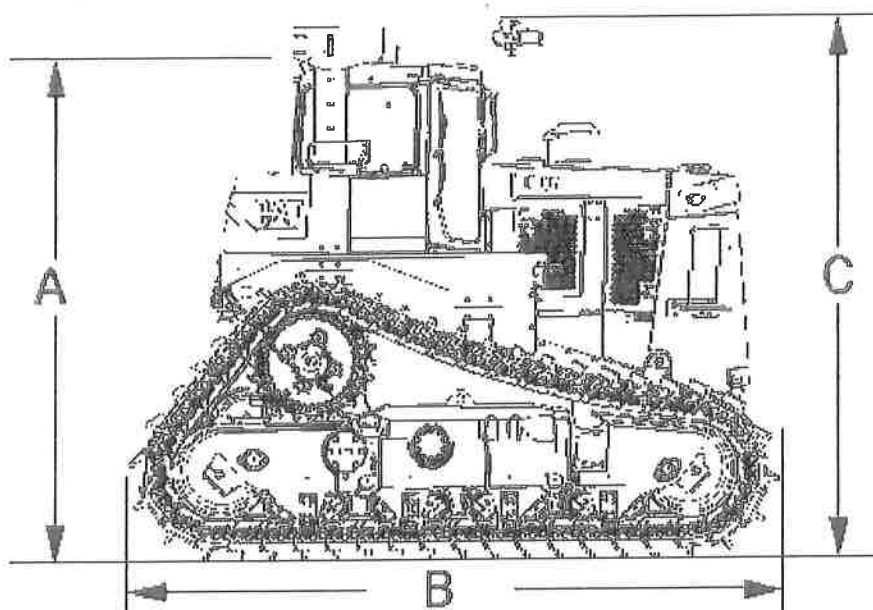


Illustration 1

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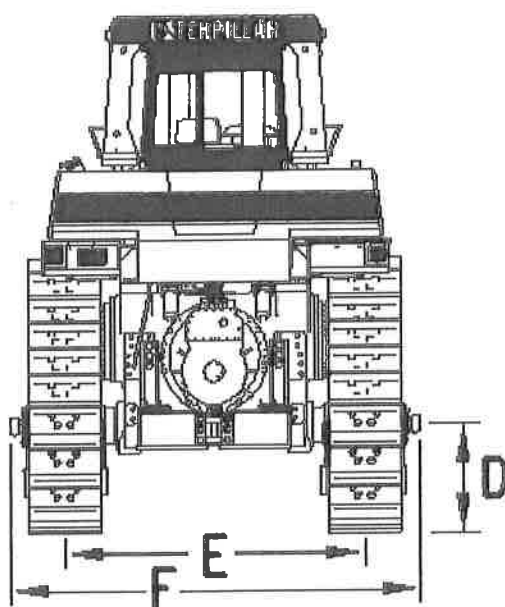
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Illustration 2

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Basic machine specifications are listed below.

Table 1

D10T Track-Type Tractor	
Engine Power	425 kW (580 hp)
Engine (Make and Model)	Caterpillar C27 ACERT (ATAAC)
Engine Displacement	27 L (1649 in ³)

Engine Rated Speed	1800 rpm
Engine (No. of Cylinders)	12
Height of Machine	
Top of FOPS Cab (A)	4098 mm (161.3 inch)
Top of Rain Cap (C)	4505 mm (177.4 inch)
Ground Clearance (D)	664 mm (26.1 inch)
Height of the Drawbar	864 mm (34 inch)
Length of Machine	
Length of Machine ⁽¹⁾ (B)	5331 mm (210 inch)
Length of Track on Ground	3855 mm (152 inch)
Drawbar	1213 mm (47.8 inch)
Single Shank Ripper ⁽²⁾⁽³⁾	1760 mm (69 inch)
Multiple Shank Ripper ⁽²⁾⁽³⁾	1717 mm (67.6 inch)
Width of Machine	
Track Gauge (E)	2550 mm (100 inch)
Width Over Trunnions (F)	3736 mm (147.1 inch)
Width of Standard Track Shoe	610 mm (24 inch)
Weight of Machine	
D10T shipping weight ⁽⁴⁾	49793 kg (109775 lb)
Operating Weight ⁽⁵⁾	70171 kg (154700 lb)
D10T without a Ripper	63054 kg (139010 lb)
D10T (maximum weight)	83160 kg (183336 lb)
Single Shank Ripper	7117 kg (15690 lb)
Multiple Shank Ripper	7968 kg (17566 lb)
Blade Specification	
10SU Bulldozer Blade ⁽²⁾	
Length	7416 mm (292 inch)
Width	4940 mm (194.5 inch)

Capacity	18.5 cubic meter (24.2 cubic yard)
10U Bulldozer Blade ⁽²⁾	
Length	7750 mm (305 inch)
Width	5260 mm (207 inch)
Capacity	22.0 cubic meter (28.7 cubic yard)

(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) Shipping weight includes the following components: coolant, lubricant, 20% fuel, ROPS, FOPS and 560 mm (22 inch) (MS shoes)

(5) The weight includes the machine and the following items: full tank of fuel, all lubricants, coolant, SU Bulldozer Blade with tilt cylinders, single shank ripper, hydraulic controls, air conditioner, 560 mm (22 inch) track (MS), cab with EROPS and operator.

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