

EQUIPMENT MAINTENANCE FORM

EQUIPMENT NUMBER

315BL

SERIAL NUMBER

3AW1620

MODEL NUMBER

1999-315BL Track Exc.

OIL

ENGINE OIL

10W30

3 1/2 gal. 14qts

TRANSMISSION OIL

DIFFERENTIAL OIL

FINAL DRIVE OIL

1350

1 gal each

HYDRAULIC OIL

424

POWER STEERING OIL

SWING CASE OIL

1350

FILTER NUMBERS

ENGINE OIL FILTER

1R0734

FUEL PRIMARY FILTER

5I7951

FUEL SECONDARY FILTER

TRANSMISSION FILTER

HYDRAULIC FILTER

093-7521-5I8670-126-2081

AIR INNER FILTER

135-5787

AIR OUTER FILTER

135-5788

WATER FILTER

DIFFERENTIAL OIL FILTER

SWING CASE OIL FILTER

POWER STEERING FILTER

Cab Filter

-305-0329 chg to 2931183

BELT NUMBERS

ALTERNATOR BELT

(2) 147-7178 Set# 147-7177

FAN BELT

AIR COMPRESSOR BELT

POWER STEERING BELT

AIR CONDITIONER BELT

(1) 848646

Bucket Teeth

143302

Pins

132-4766-Keepers 149-5733

RADIATOR HOSES

LOWER HOSE

UPPER HOSE

OIL COOLER HOSE

EQUIPMENT # 3156L BH-36 1492a

DATE	HOURS	OIL	OIL FILTER	FUEL FILTER	AIR FILTER	HYDR	TRANS	FINAL DRIVES	Spring	LUBE	SPLITTER	OIL SAMPLE	INITIALS
1-12-05	147	chg	chg	chg	Both NEW	chg oil	—	chg oil	—	comp.	—	—	mag gm
6-7-05	352	chg	chg	—	cleaned	OK	—	OK	—	comp	—	Martins	mag
8-27-05	529	chg	chg	chg	New	OK	—	OK	OK	comp	—	✓	mag
2-1-06	773	chg	chg	—	New	OK	—	OK	OK	comp	—	✓	mag
8-17-06	933	chg	chg	chg	New	chg F.	—	OK	chg oil	—	—	✓	mag
11-4-06	1086	chg	chg	chg	New	OK	—	OK	OK	comp.	—	✓	mag
1-15-07	1217	chg	chg	chg	New	OK	—	OK	OK	comp.	—	✓	mag
5-23-07	1448	chg	chg	chg	New	OK	—	OK	OK	comp.	—	✓	mag
11-16-07	1636	chg	chg	chg	New	OK	—	OK	OK	comp.	—	✓	mag
3-28-08	1773	chg	chg	chg	New	OK	—	OK	OK	comp.	—	✓	mag
7-24-08	1947	chg	chg	—	New	OK	—	OK	OK	comp.	—	✓	mag
9-4-08	2001	chg	chg	chg	2 New	chg 3F.	—	chg oil	chg oil	comp	—	✓	mag
1-10-09	2228	chg	chg	—	—	OK	—	OK	OK	comp	—	✓	mag
6-23-09	2411	chg	chg	chg	New	OK	—	OK	OK	comp.	—	✓	mag
2-3-10	2635	chg	chg	chg	New	OK	—	OK	OK	comp.	—	✓	mag
7-28-10	2855	chg	chg	—	New	OK	—	OK	OK	comp.	—	✓	mag
1-12-11	3091	chg	chg	chg	2 New	chg 3F.	—	OK	chg oil	comp.	—	✓	mag
6-1-11	3253	chg	chg	chg	1 New	OK	—	OK	OK	comp	—	✓	mag
2-9-12	3567	chg	chg	chg	1 New	OK	—	OK	OK	comp	—	✓	mag
4-24-12	3734	chg	chg	—	1 New	OK	—	OK	OK	comp	—	✓	mag
7-5-12	3914	chg	chg	chg	NEW	OK	—	OK	OK	comp	—	✓	mag
3-8-13	4102	chg	chg	chg	2 NEW	chg oil 3F.	—	chg oil	chg oil	comp	—	✓	mag
7-17-13	4240	chg	chg	chg	NEW	OK	—	chg oil	OK	comp	—	✓	mag
10-29-13	4405	chg	chg	chg	NEW	OK	—	OK	OK	comp	—	✓	mag
3-14-14	4525	chg	chg	chg	NEW	OK	—	OK	OK	comp	—	✓	mag
8-5-14	4675	chg	chg	chg	1 New	OK	—	OK	OK	comp	—	✓	mag
10-18-15	4872	chg	chg	chg	1 New	OK	—	OK	OK	comp	—	✓	mag
10-8-15	5041	chg	chg	chg	2 NEW	chg 3F.	—	chg oil	chg oil	comp	—	✓	mag
4-3-16	5222	chg	chg	chg	New	OK	—	OK	OK	comp.	—	✓	mag
3-8-17	5411	chg	chg	chg	NEW	OK	—	OK	OK	comp.	—	✓	mag
10-31-18	5615	chg	chg	chg	1 New	OK	—	OK	OK	comp.	—	✓	mag

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COMPANY NAME :
 CUSTOMER EQUIP NUM : BH0036
 COMPARTMENT NAME : ENGINE
 SERIAL NUMBER : 3AW01620
 MANUFACTURER : CATERPILLAR
 MODEL : 315BL
 JOB SITE :
 EXT WARR NUMBER :
 SHOP JOB NUM : MANHATTAN
 COMP SERIAL NUM :
 COMPARTMENT MODEL :
 COMP MANUFACTURER :
 SAMPLE LABEL NUM :
 FLUID BRAND/WEIGHT : MOBIL/10W-30
 FLUID TYPE :
 EXT WARR EXPIRE DATE :
 FUEL CONSUMED :

SAMPLE TYPE: OIL

SAMPLE SHIP TIME (days): 26

LAB CONTROL NUMBER	SAMPLE DATE	PROCESS DATE	EQUIPMENT METER	METER ON FLUID	FLUID CHANGED	MAKE UP FLUID	MAKE UP FLUID UNITS	FILTER CHANGED
E130-48330-1007	31-Oct-2018	26-Nov-2018	5616 HR	205 HR	Yes			Yes
No Action Required	WEAR PATTERN IS ACCEPTABLE AT THIS TIME. RESAMPLE IN 250 HRS.							
E130-47075-1008	08-Mar-2017	16-Mar-2017	5411 HR	189 HR	Yes			Yes
No Action Required	WEAR PATTERN IS ACCEPTABLE AT THIS TIME. RESAMPLE AT NORMAL INTERVAL.							
E130-46161-1038	03-Jun-2016	09-Jun-2016	5222 HR	181 HR	Yes			Yes
No Action Required	WEAR PATTERN IS ACCEPTABLE AT THIS TIME. RESAMPLE AT NORMAL INTERVAL.							
E130-45292-1042	08-Oct-2015	19-Oct-2015	5041 HR	169 HR	Yes			Yes
No Action Required	WEAR PATTERN IS ACCEPTABLE AT THIS TIME. RESAMPLE IN 250 HRS.							

Wear Metals (ppm)	Cu	Fe	Cr	Al	Pb	Sn	Si	Na	K	B	Mo	Ni	Ag	Ca	Mg	Zn	P
E130-48330-1007	1	9	1	1	1	0	3	5	1	46	44	0	0	1704	641	1048	881
E130-47075-1008	0	2	0	0	0	0	1	1	4	9	13	0	0	1770	829	1574	1030
E130-46161-1038	1	11	2	2	1	0	3	4	0	47	47	0	0	1418	864	1202	1041
E130-45292-1042	1	10	2	1	0	0	2	4	1	41	46	0	0	1300	805	1146	912

Oil Condition / Particle Count (ct/ml)	ST	OXI	NIT	SUL	W	A	F	V100
E130-48330-1007	28	20	9	21	N	N	N	11.9
E130-47075-1008	39	19	10	21	N	N	N	12.0
E130-46161-1038	40	17	9	19	N	N	N	11.6
E130-45292-1042	38	16	9	19	N	N	N	12.1

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 = 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, TBN = 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.

RECEIVED DEC 03 2018

COMPANY NAME :
 CUSTOMER EQUIP NUM : 3AW01620
 COMPARTMENT NAME : HYDRAULIC SYSTEM
 SERIAL NUMBER : 3AW01620
 MANUFACTURER : CATERPILLAR
 MODEL : 315BL
 JOB SITE :
 EXT WARR NUMBER :
 SHOP JOB NUM : MANHATTAN
 COMP SERIAL NUM :
 COMPARTMENT MODEL :
 COMP MANUFACTURER :
 SAMPLE LABEL NUM :
 FLUID BRAND/WEIGHT : MOBIL10W
 FLUID TYPE :
 EXT WARR EXPIRE DATE :
 FUEL CONSUMED :

SAMPLE TYPE: OIL

SAMPLE SHIP TIME (days) : 8

LAB CONTROL NUMBER	SAMPLE DATE	PROCESS DATE	EQUIPMENT METER	METER ON FLUID	FLUID CHANGED	MAKE UP FLUID	MAKE UP FLUID UNITS	FILTER CHANGED
E130-45289-2002	08-Oct-2015	16-Oct-2015	5041 HR	939 HR	No			Yes
No Action Required	WEAR PATTERN IS ACCEPTABLE AT THIS TIME. RESAMPLE IN 500 HRS.							
E130-43084-2001	08-Mar-2013	25-Mar-2013	4102 HR	2101 HR	Yes			Yes
No Action Required	NOTE LENGTH OF TIME SINCE LAST SAMPLE TAKEN. CHECK RECORDS TO VERIFY OIL USAGE PERIOD. WEAR PATTERN IS ACCEPTABLE AT THIS TIME. OIL & FILTER(S) CHANGED AT THIS TIME. RESAMPLE IN 500 HRS / 6 MONTHS, WHICHEVER COMES FIRST TO ESTABLISH A TREND.							
E130-41028-2013	12-Jan-2011	28-Jan-2011	3091 HR	1090 HR	Yes			Yes
Monitor Compartment	SILICON AND IRON INCREASED. PARTICLE COUNT IS VERY HIGH AT THE 6 MICRON LEVEL (FINER PARTICLES). CK SAMPLING PROCEDURE. MACHINE MUST BE HOT TO ENSURE ACCURATE RESULTS. RESAMPLE AT FULL OPERATING TEMPERATURE RIGHT AWAY TO VERIFY READINGS.							

Wear Metals (ppm)	Cu	Fe	Cr	Al	Pb	Sn	Si	Na	K	B	Mo	Ni	Ag	Ca	Mg	Zn	P
E130-45289-2002	27	10	1	0	1	0	9	2	2	73	1	0	0	2605	43	1308	1039
E130-43084-2001	76	27	1	2	1	1	5	3	0	32	1	0	1	1122	96	988	925
E130-41028-2013	172	32	1	2	2	0	13	4	1	66	3	0	0	2080	268	1290	1040

Oil Condition / Particle Count (c/ml)	ST	OXI	NIT	SUL	W	A	V100	ISO	4μ	6μ	10μ	14μ	18μ	21μ	38μ	50μ
E130-45289-2002	0	7	4	16	N	N	7.9	21/18/14	15583	2302	435	160	82	60	25	12
E130-43084-2001	0	6	4	15	N	N	6.7	22/18/15	35942	2433	285	179	124	105	49	26
E130-41028-2013	0	8	4	17	N	N	5.7	23/21/13	53105	10246	220	53	29	20	5	2

Ag = Silver, Al = Aluminum, B = Boron, Ca = Calcium, Cr = Chromium, Cu = Copper, Fe = Iron, P = Phosphorus, K = Potassium, Mg = Magnesium, Mn = Manganese, Ni = Nickel, Pb = Lead, Si = Silicon, Sn = Tin, 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 = Flash Point, TAN = Total Acid Number, TBN = Total Base Number, H2O = Karl Fisher result, V100 = Viscosity@ 100C, V40 = Viscosity@40C
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