



Quinn Company - P.O. Box 226789, Los Angeles, CA, 90022, USA

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**CONTACT INFORMATION**

PHONE:  
FAX:  
Email:

Interp By: Tony Finney

**EQUIPMENT**

EQUIP NUM: 1219  
SERIAL NUMBER: RJS01719  
MODEL : D9T  
MANUFACTURER : CAT  
COMPANY NAME : COUNTY SANITATION DIST. 2 - SCHOLL CANYON  
JOB SITE : SCLF L\_A\_C\_S\_D\_DU\_H430  
AREA:  
REGION:

**SAMPLE INFORMATION**

COMPARTMENT NAME : ENGINE  
COMP SERIAL NUM:  
COMPARTMENT MODEL : C18\_CAT  
LABEL#: QC  
SHOP JOB NUM :  
SAMPLE TYPE: OIL  
SAMPLE SHIP TIME (days) : 55  
SAMPLE LOCATION :

**No Action  
Required**

ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.

LAB #

H430-51174-0113

PROCESS 23-Jun-21  
DATE

**WEAR/CONTAMINATION - ADDITIVES/FORMULATION**

SAMPLE DATE	SAMPLE ID	METER ( HR )	METER ON FLUID	FLUID CHANGE	FILTER CHANGE	Cu	Fe	Cr	Al	Pb	Sn	Si	Na	K	Mo	Ni	Ag	Sb	Ti	V	Ca	P	Zn	Mg	Ba	B
29-Apr-21	H430-51174-0113	19344	267	Y	Y	3	14	0	0	4	1	6	4	3	69	0	0	0	0	0	2063	1184	1397	445	0	91
02-Mar-21	H430-51118-0533	19011	243	Y	Y	5	16	0	1	4	0	7	3	0	83	0	0	0	0	0	2723	1318	1550	579	0	98
13-Jan-21	H430-51018-0129	18768	266	Y	Y	4	13	0	0	2	0	6	0	0	78	0	0	0	0	0	2421	1420	1546	503	0	107
03-Nov-20	H430-50344-0211	18502	239	Y	Y	3	10	0	0	0	0	4	0	0	59	1	0	0	0	0	1927	1094	1227	415	0	76

**OIL FORMULATION - OIL CONDITION - OIL CONTAMINATION**

SAMPLE DATE	SAMPLE ID	METER ( HR )	METER ON FLUID	FLUID BRAND	FLUID TYPE	FLUID WEIGHT	FLUID CHANGE	FILTER CHANGE	V100	ST	OXI	SUL	NIT	W	A	F	PFc
29-Apr-21	H430-51174-0113	19344	267			15W-40	Y	Y	16.5	5	18	22	7	N	N	N	0.96
02-Mar-21	H430-51118-0533	19011	243			15W-40	Y	Y	15.5	10	18	23	8	N	N	N	1.55
13-Jan-21	H430-51018-0129	18768	266			15W-40	Y	Y	16.2	8	17	21	7	N	N	N	0.77
03-Nov-20	H430-50344-0211	18502	239			15W-40	Y	Y	16.5	0	6	14	3	N	N	N	1.22

Cu = Copper, Fe = Iron, Cr = Chromium, Al = Aluminum, Pb = Lead, Sn = Tin, Si = Silicon, Na = Sodium, K = Potassium, B = Boron, Mo = Molybdenum, Ni = Nickel, Ag = Silver, Ti = Titanium, Sb = Antimony, Ca = Calcium, Mg = Magnesium, Zn = Zinc, P = Phosphorus  
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 NaW = Salt Water, FI Pt = Flash Point, TAN = Total Acid Number,  
TBN = Total Base Number, H2O = Karl Fisher Result, V100 = Viscosity at 100C

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**EQUIPMENT**

EQUIP NUM: 1219  
SERIAL NUMBER: RJS01719  
MODEL : D9T  
MANUFACTURER : CAT  
COMPANY NAME : COUNTY SANITATION DIST. 2 - SCHOLL CANYON  
JOB SITE : SCLF L\_A\_C\_S\_D\_DU\_H430  
AREA:  
REGION:

**SAMPLE INFORMATION**

COMPARTMENT NAME : TRANSMISSION  
COMP SERIAL NUM:  
COMPARTMENT MODEL :  
LABEL#: QC  
SHOP JOB NUM :  
SAMPLE TYPE: OIL  
SAMPLE SHIP TIME (days) : 57  
SAMPLE LOCATION :

**No Action  
Required**

ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.

LAB #  
H430-51118-0911  
PROCESS 28-Apr-21  
DATE

**WEAR/CONTAMINATION - ADDITIVES/FORMULATION**

SAMPLE DATE	SAMPLE ID	METER ( HR )	METER ON FLUID	FLUID CHANGE	FILTER CHANGE	Cu	Fe	Cr	Al	Pb	Sn	Si	Na	K	Mo	Ni	Ag	Sb	Ti	V	Ca	P	Zn	Mg	Ba	B
02-Mar-21	H430-51118-0911	19011	999	Y	Y	6	7	0	0	2	1	3	3	1	3	0	0	0	1	0	2746	953	1060	28	0	5
03-Nov-20	H430-50344-0515	18502	490	U	U	5	6	0	0	4	0	2	3	0	1	0	0	0	0	0	2573	903	1081	18	0	3
03-Aug-20	H430-50227-0615	18012	1011	Y	Y	7	9	0	0	7	0	4	2	1	2	1	0	0	1	0	3100	1042	1183	19	0	5
21-Apr-20	H430-50115-0524	17496	490	N	Y	4	7	0	0	3	0	3	5	1	1	0	0	0	1	0	2695	989	1111	19	0	5

**OIL FORMULATION - OIL CONDITION - OIL CONTAMINATION**

SAMPLE DATE	SAMPLE ID	METER ( HR )	METER ON FLUID	FLUID BRAND	FLUID TYPE	FLUID WEIGHT	FLUID CHANGE	FILTER CHANGE	V100	ST	OXI	SUL	NIT	W	A
02-Mar-21	H430-51118-0911	19011	999	CAT		30	Y	Y	11.2	0	5	18	6	N	N
03-Nov-20	H430-50344-0515	18502	490	CAT		30	U	U	10.9	0	3	12	2	N	N
03-Aug-20	H430-50227-0615	18012	1011	CAT		30	Y	Y	12.7	0	3	15	5	N	N
21-Apr-20	H430-50115-0524	17496	490	CAT		30	N	Y	12.9	0	3	12	3	N	N

**OIL CLEANLINESS**

SAMPLE DATE	SAMPLE ID	FLUID CHANGE	FILTER CHANGE	ISO	4µ	6µ	10µ	14µ	18µ	21µ	38µ	50µ
02-Mar-21	H430-51118-0911	Y	Y	18/16	14616	1742	568	357	293	258	123	95
03-Nov-20	H430-50344-0515	U	U	18/17	25540	1844	887	655	548	498	243	181
03-Aug-20	H430-50227-0615	Y	Y	20/19	19560	9045	5281	3500	2726	2269	692	401
21-Apr-20	H430-50115-0524	N	Y	19/16	16361	2683	1008	588	424	356	133	92

Cu = Copper, Fe = Iron, Cr = Chromium, Al = Aluminum, Pb = Lead, Sn = Tin, Si = Silicon, Na = Sodium, K = Potassium, B = Boron, Mo = Molybdenum, Ni = Nickel, Ag = Silver, Ti = Titanium, Sb = Antimony, Ca = Calcium, Mg = Magnesium, Zn = Zinc, P = Phosphorus  
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 NaW = Salt Water, FI Pt = Flash Point, TAN = Total Acid Number,  
TBN = Total Base Number, H2O = Karl Fisher Result, V100 = Viscosity at 100C

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**EQUIPMENT**

EQUIP NUM: 1219  
SERIAL NUMBER: RJS01719  
MODEL : D9T  
MANUFACTURER : CAT  
COMPANY NAME : COUNTY SANITATION DIST. 2 - SCHOLL CANYON  
JOB SITE : SCLF L\_A\_C\_S\_D\_DU\_H430  
AREA:  
REGION:

**SAMPLE INFORMATION**

COMPARTMENT NAME : FINAL DRIVE LEFT  
COMP SERIAL NUM:  
COMPARTMENT MODEL :  
LABEL#: QC  
SHOP JOB NUM :  
SAMPLE TYPE: OIL  
SAMPLE SHIP TIME (days) : 57  
SAMPLE LOCATION :

Interp By: Tony Finney

**No Action  
Required**

ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.

LAB #  
H430-51118-0925  
PROCESS 28-Apr-21  
DATE

WEAR/CONTAMINATION - ADDITIVES/FORMULATION																										
SAMPLE DATE	SAMPLE ID	METER ( HR )	METER ON FLUID	FLUID CHANGE	FILTER CHANGE	Cu	Fe	Cr	Al	Pb	Sn	Si	Na	K	Mo	Ni	Ag	Sb	Ti	V	Ca	P	Zn	Mg	Ba	B
02-Mar-21	H430-51118-0925	19011	999	Y	U	0	49	1	1	0	0	19	3	1	3	0	0	0	1	0	2311	821	921	15	0	3
03-Nov-20	H430-50344-0523	18502	490	U	U	0	30	0	0	0	2	18	6	1	1	1	0	0	1	0	1907	736	906	14	0	4
03-Aug-20	H430-50227-0627	18012	1011	Y	N	1	160	3	15	0	0	92	7	5	6	1	0	1	8	0	2754	974	1104	48	0	15
21-Apr-20	H430-50115-0528	17496	490	N	U	0	77	1	1	0	0	38	5	1	5	0	0	0	6	0	2245	837	953	39	0	13

OIL FORMULATION - OIL CONDITION - OIL CONTAMINATION																
SAMPLE DATE	SAMPLE ID	METER ( HR )	METER ON FLUID	FLUID BRAND	FLUID TYPE	FLUID WEIGHT	FLUID CHANGE	FILTER CHANGE	V100	ST	OXI	SUL	NIT	W		
02-Mar-21	H430-51118-0925	19011	999			50	Y	U	18.8	0	4	18	6	N		
03-Nov-20	H430-50344-0523	18502	490			50	U	U	17.5	0	2	12	2	N		
03-Aug-20	H430-50227-0627	18012	1011			50	Y	N	18.4	0	3	15	5	N		
21-Apr-20	H430-50115-0528	17496	490			50	N	U	16.3	0	3	12	4	N		

OIL CLEANLINESS												
SAMPLE DATE	SAMPLE ID	FLUID CHANGE	FILTER CHANGE	ISO	4µ	6µ	10µ	14µ	18µ	21µ	38µ	50µ
02-Mar-21	H430-51118-0925	Y	U	18/15	17398	1580	428	237	184	156	74	53
03-Nov-20	H430-50344-0523	U	U	19/17	26248	3660	1340	863	697	618	265	182
03-Aug-20	H430-50227-0627	Y	N	20/15	30648	5491	249	169	139	124	69	54
21-Apr-20	H430-50115-0528	N	U	20/17	19657	6379	2905	1266	875	760	324	233

Cu = Copper, Fe = Iron, Cr = Chromium, Al = Aluminum, Pb = Lead, Sn = Tin, Si = Silicon, Na = Sodium, K = Potassium, B = Boron, Mo = Molybdenum, Ni = Nickel, Ag = Silver, Ti = Titanium, Sb = Antimony, Ca = Calcium, Mg = Magnesium, Zn = Zinc, P = Phosphorus  
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 NaW = Salt Water, FI Pt = Flash Point, TAN = Total Acid Number,  
TBN = Total Base Number, H2O = Karl Fisher Result, V100 = Viscosity at 100C

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## EQUIPMENT

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SERIAL NUMBER: RJS01719  
MODEL : D9T  
MANUFACTURER : CAT  
COMPANY NAME : COUNTY SANITATION DIST. 2 - SCHOLL CANYON  
JOB SITE : SCLF L\_A\_C\_S\_D\_DU\_H430  
AREA:  
REGION:

## SAMPLE INFORMATION

COMPARTMENT NAME : FINAL DRIVE REAR RIGHT  
COMP SERIAL NUM:  
COMPARTMENT MODEL :  
LABEL#: QC  
SHOP JOB NUM :  
SAMPLE TYPE: OIL  
SAMPLE SHIP TIME (days) : 57  
SAMPLE LOCATION :

**Monitor  
Compartment**

SILICON AND ALUMINUM ARE ELEVATED AND MAY INDICATE DIRT ENTRY. ALL OTHER ANALYSIS READINGS APPEAR NORMAL. INSPECT FOR SOURCE OF DIRT ENTRY INTO THE SYSTEM. RESAMPLE IN 250 HOURS TO MONITOR.

LAB #

H430-51118-0922

PROCESS 28-Apr-21  
DATE

### WEAR/CONTAMINATION - ADDITIVES/FORMULATION

SAMPLE DATE	SAMPLE ID	METER ( HR )	METER ON FLUID	FLUID CHANGE	FILTER CHANGE	Cu	Fe	Cr	Al	Pb	Sn	Si	Na	K	Mo	Ni	Ag	Sb	Ti	V	Ca	P	Zn	Mg	Ba	B
02-Mar-21	H430-51118-0922	19011	999	Y	U	1	165	1	24	0	0	94	9	7	3	0	0	0	2	0	2379	833	936	17	0	2
03-Dec-20	H430-50344-0528	18502	490	U	U	1	102	1	18	0	0	77	11	5	1	0	0	0	2	0	1952	736	915	15	0	2
03-Aug-20	H430-50227-0624	18012	1011	Y	N	3	473	3	114	0	0	419	36	32	4	1	0	1	10	0	2804	967	1084	39	2	4
20-Apr-20	H430-50115-0540	17496	490	N	U	3	292	2	61	0	0	231	26	18	4	1	0	0	11	0	2420	905	1022	49	1	15

### OIL FORMULATION - OIL CONDITION - OIL CONTAMINATION

SAMPLE DATE	SAMPLE ID	METER ( HR )	METER ON FLUID	FLUID BRAND	FLUID TYPE	FLUID WEIGHT	FLUID CHANGE	FILTER CHANGE	V100	ST	OXI	SUL	NIT	W
02-Mar-21	H430-51118-0922	19011	999	CAT		50	Y	U	19.3	0	4	18	6	N
03-Dec-20	H430-50344-0528	18502	490	CAT		50	U	U	18.8	0	3	12	2	N
03-Aug-20	H430-50227-0624	18012	1011	CAT		50	Y	N	19.6	0	4	16	5	N
20-Apr-20	H430-50115-0540	17496	490	CAT		50	N	U	18.6	0	3	13	4	N

### OIL CLEANLINESS

SAMPLE DATE	SAMPLE ID	FLUID CHANGE	FILTER CHANGE	ISO	4µ	6µ	10µ	14µ	18µ	21µ	38µ	50µ
02-Mar-21	H430-51118-0922	Y	U	22/19	58626	39983	12241	2653	1268	892	378	299
03-Dec-20	H430-50344-0528	U	U	23/19	79241	54814	17121	3263	1212	714	166	126
03-Aug-20	H430-50227-0624	Y	N	HBL	0	0	0	0	0	0	0	0
20-Apr-20	H430-50115-0540	N	U	22/18	38312	30136	13392	1975	669	529	216	153

Cu = Copper, Fe = Iron, Cr = Chromium, Al = Aluminum, Pb = Lead, Sn = Tin, Si = Silicon, Na = Sodium, K = Potassium, B = Boron, Mo = Molybdenum, Ni = Nickel, Ag = Silver, Ti = Titanium, Sb = Antimony, Ca = Calcium, Mg = Magnesium, Zn = Zinc, P = Phosphorus  
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 NaW = Salt Water, FI Pt = Flash Point, TAN = Total Acid Number,  
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**EQUIPMENT**

EQUIP NUM: 1219  
SERIAL NUMBER: RJS01719  
MODEL : D9T  
MANUFACTURER : CAT  
COMPANY NAME : COUNTY SANITATION DIST. 2 - SCHOLL CANYON  
JOB SITE : SCLF L\_A\_C\_S\_D\_DU\_H430  
AREA:  
REGION:

**SAMPLE INFORMATION**

COMPARTMENT NAME : HYDRAULIC SYSTEM  
COMP SERIAL NUM:  
COMPARTMENT MODEL :  
LABEL#: QC  
SHOP JOB NUM :  
SAMPLE TYPE: OIL  
SAMPLE SHIP TIME (days) : 57  
SAMPLE LOCATION :

Interp By: Tony Finney

**No Action  
Required**

UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.

LAB #  
H430-51118-0908  
PROCESS 28-Apr-21  
DATE

WEAR/CONTAMINATION - ADDITIVES/FORMULATION																										
SAMPLE DATE	SAMPLE ID	METER ( HR )	METER ON FLUID	FLUID CHANGE	FILTER CHANGE	Cu	Fe	Cr	Al	Pb	Sn	Si	Na	K	Mo	Ni	Ag	Sb	Ti	V	Ca	P	Zn	Mg	Ba	B
02-Mar-21	H430-51118-0908	19011		N	Y	16	16	2	10	1	0	29	5	4	2	0	0	0	2	0	2948	1028	1144	25	1	6
03-Nov-20	H430-50344-0510	18502		U	U	19	13	0	6	3	0	24	5	3	2	0	0	0	1	0	2718	923	1148	21	0	5
03-Aug-20	H430-50227-0601	18012		N	Y	19	13	2	6	0	0	25	5	4	2	2	10	0	3	1	3405	1169	1340	29	1	8
21-Apr-20	H430-50115-0501	17496	17496	N	N	27	16	2	6	1	1	23	5	4	2	1	7	0	3	1	2732	975	1146	19	1	8

OIL FORMULATION - OIL CONDITION - OIL CONTAMINATION																	
SAMPLE DATE	SAMPLE ID	METER ( HR )	METER ON FLUID	FLUID BRAND	FLUID TYPE	FLUID WEIGHT	FLUID CHANGE	FILTER CHANGE	V100	ST	OXI	SUL	NIT	W	A		
02-Mar-21	H430-51118-0908	19011		CAT		10W	N	Y	8.0	0	4	18	6	N	N		
03-Nov-20	H430-50344-0510	18502		CAT		10W	U	U	7.2	0	2	12	4	N	N		
03-Aug-20	H430-50227-0601	18012		CAT		10W	N	Y	8.3	0	3	15	4	N	N		
21-Apr-20	H430-50115-0501	17496	17496	CAT		10W	N	N	8.6	0	3	12	3	N	N		

OIL CLEANLINESS												
SAMPLE DATE	SAMPLE ID	FLUID CHANGE	FILTER CHANGE	ISO	4µ	6µ	10µ	14µ	18µ	21µ	38µ	50µ
02-Mar-21	H430-51118-0908	N	Y	19/16	15632	3555	875	350	267	230	102	69
03-Nov-20	H430-50344-0510	U	U	19/17	24752	2505	1028	793	677	604	179	79
03-Aug-20	H430-50227-0601	N	Y	20/18	39766	8509	2226	1513	1362	1269	779	556
21-Apr-20	H430-50115-0501	N	N	20/17	25707	6158	1600	1024	807	711	307	219

Cu = Copper, Fe = Iron, Cr = Chromium, Al = Aluminum, Pb = Lead, Sn = Tin, Si = Silicon, Na = Sodium, K = Potassium, B = Boron, Mo = Molybdenum, Ni = Nickel, Ag = Silver, Ti = Titanium, Sb = Antimony, Ca = Calcium, Mg = Magnesium, Zn = Zinc, P = Phosphorus  
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 NaW = Salt Water, FI Pt = Flash Point, TAN = Total Acid Number,  
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