

**BRENT PEYTON**  
Return to Pineville Store

COMPANY NAME : RITCHEE EQUIPMENT, INC.  
SHOP JOB NUM : 0286040  
CUSTOMER EQUIP NUM : 10-2  
COMP SERIAL NUM :  
COMPARTEMENT NAME : ENGINE  
COMPARTEMENT MODEL :  
SERIAL NUMBER : 8Y600800  
COMP MANUFACTURER :  
MANUFACTURER : CATERPILLAR  
SAMPLE LABEL NUM :  
MODEL : 988F  
FLUID BRAND/WEIGHT :  
PHONE :  
JOB SITE :  
FLUID TYPE :  
SAMPLE TYPE: **OIL**  
EXT WARR NUMBER :  
EXT WARR EXPIRE DATE :  
FUEL CONSUMED :



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Fluids Analysis Laboratory  
1330 Lynchburg Turnpike  
Salern, VA 24153-5457  
540-387-1111  
www.catermachinery.com

LAB CONTROL NUMBER : D100-49073-0130    SAMPLE DATE : 12-Mar-2019    PROCESS DATE : 14-Mar-2019    EQUIPMENT METER : 21825 HR    METER ON FLUID : 0    FLUID CHANGED : Unknown    MAKE UP FLUID :    MAKE UP FLUID UNITS :    FILTER CHANGED :

No Action Required

NO PROBLEMS PRESENTLY ASSOCIATED WITH THIS SAMPLE. CONTINUE SAMPLING AT THE NORMAL INTERVAL.

Wear Metals (ppm)	Cu	Fe	Cr	Al	Pb	Sn	Si	Na	K	B	Mo	Ni	Ag	Ti	V	Ca	Mg	Zn	P
D100-49073-0130	1	10	0	5	0	1	11	5	0	59	43	0	0	1	2053	486	1122	986	

Oil Contaminant / Particle Count (ct/ml)	ST	OXI	NIT	SUL	W	A	F	V100	PQI
D100-49073-0130	0	18	6	22	N	N	N	12.8	3

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.

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COMPANY NAME : FITCHIE EQUIPMENT, INC.  
 CUSTOMER EQUIP NUM : 10-2  
 COMPARTMENT NAME : RADIIATOR  
 SERIAL NUMBER : 8YGD0800  
 MANUFACTURER : CATERPILLAR  
 MODEL : 988F

SHOP JOB NUM : 0286040  
 COMP SERIAL NUM :  
 COMPARTMENT MODEL :  
 COMP MANUFACTURER :  
 SAMPLE LABEL NUM :  
 FLUID BRAND/WEIGHT :  
 FLUID TYPE :

FAX :  
 PHONE :  
 SAMPLE TYPE : **COOLANT - RADI\_MET**  
 SAMPLE SHD TIME (days) : 2  
 EXT WARR NUMBER :  
 JOB SITE :

EXT WARR EXPIRE DATE :  
 FUEL CONSUMED :

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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
D100-49073-1008	12-Mar-2019	14-Mar-2019	21925 HR	0	No		
<b>Monitor Compartment</b> SLIGHTLY CLOUDY APPEARANCE MAY BE DUE POOR QUALITY MAKE UP WATER BEING ADDED TO THE SYSTEM, DISSOLVED SOLIDS OR DISPERSED OIL IN COOLANT. TRACE OF FLOATING BROWN SOLIDS NOTED. CHECK SOURCES OF CONTAMINATION. RESAMPLE AT REGULAR INTERVAL TO MONITOR THE COOLING SYSTEM.							

Date	Al	Cu	Fe	Pb	K	Na	Sn	Zn	CnC	MgC	TH	MoO4	SiO3	BO3	PO4	BP	FP	GL	pH	CON
D100-49073-1008	0	8	6	0	573	1688	0	3	10	22	32	255	28	1214	81	108	-47	56	7.7	2389

Date	NO2	Odor	Color	App	Foam	Oil	Paint	PApp	PCol	PProp
D100-49073-1008	1419	norm	yellow/ld	sl abnd	norm	none	traces	residue	brn sol	floaters

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 Add, SO4 = Sulfate, TT = Trityrzole, BP = Bolt Point(°C), FP = Freeze Point(°C), GL = Glycol, CON = Conductivity, App = Appearance, PApp = 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 : RITCHEE EQUIPMENT, INC.  
CUSTOMER EQUIP NUM : 10-2  
COMPARTMENT NAME : TRANSMISSION POWER SHIFT  
SERIAL NUMBER : 8Y609800  
MANUFACTURER : CATERPILLAR  
MODEL : 988F  
JOB SITE :  
EXT WARR NUMBER :  
SHOP JOB NUM : 0286040  
COMP SERIAL NUM :  
COMPARTMENT MODEL :  
COMP MANUFACTURER :  
SAMPLE LABEL NUM :  
FLUID BRAND/WEIGHT :  
FLUID TYPE :  
EXT WARR EXPIRE DATE :  
FUEL CONSUMED :

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LAB CONTROL NUMBER : D100-49073-0117  
SAMPLE DATE : 12-Mar-2019  
PROCESS DATE : 14-Mar-2019  
EQUIPMENT METER : 21825 HR  
METER ON FLUID : 0  
FLUID CHANGED : No  
MAKE UP FLUID :  
MAKE UP FLUID UNITS :  
FILTER CHANGED :  
SAMPLE TYPE : OIL  
EXT WARR NUMBER : 2  
SAMPLER SHIP TIME (day): 2  
SLIGHTLY ELEVATED COPPER LEVEL, MAY BE DUE TO INCREASED OIL COOLER CORE LEACHING, NOT WEAR. OTHER READINGS APPEAR TO BE NORMAL. CHECK POSSIBLE SOURCES OF CONTAMINATION. RESAMPLE IN 250 HOURS TO MONITOR.

Wear Metals (ppm)

	Cu	Fe	Cr	Al	Pb	Sn	Si	Na	K	B	Mo	Ni	Ag	Ti	V	Ca	Mg	Zn	P
D100-49073-0117	47	7	0	9	1	2	17	4	0	5	25	0	0	0	0	1515	252	1319	1131

Oil Contaminant Particle Count (ct/ml)

ST	OXI	NIT	SUL	W	A	V100	PQI	ISO	4µ	6µ	10µ	14µ	18µ	21µ	39µ	50µ	
D100-49073-0117	0	5	5	17	N	N	8.8	5	2117/13	12884	1188	228	72	42	32	10	4

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 = Excavator, NIT = Nitration, OXI = Oxidation, ST = Seal, 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 : RITCHEE EQUIPMENT, INC.  
SHOP JOB NUM : 0286040  
CUSTOMER EQUIP NUM : 10-2  
COMPARTMENT NAME : HYDRAULIC SYSTEM  
SERIAL NUMBER : 8YGD0890  
MANUFACTURER : CATERPILLAR  
MODEL : 988F  
JOB SITE :  
EXT WARR NUMBER :  
FUEL CONSUMED :



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SAMPLE TYPE: **OIL**  
SAMPLE SHD TIME (days) : 2

LAB CONTROL NUMBER : D100-48073-0113  
SAMPLE DATE : 12-Mar-2019  
PROCESS DATE : 14-Mar-2019  
EQUIPMENT METER : 21825 HR  
METER ON FLUID : 0  
FLUID CHANGED : No  
MAKE UP FLUID :  
MAKE UP FLUID UNITS :  
FILTER CHANGED :  
Monitor Compartment  
SLIGHTLY ELEVATED COPPER LEVEL MAY BE DUE TO INCREASED OIL COOLER CORE LEACHING, NOT WEAR. OTHER READINGS APPEAR TO BE NORMAL. CHECK POSSIBLE SOURCES OF CONTAMINATION. RESAMPLE IN 250 HOURS TO MONITOR.

Wear Metals (ppm)	Cu	Fe	Cr	Al	Pb	Sn	Si	Na	K	B	Mo	Ni	Ag	Ti	V	Ca	Mg	Zn	P
D100-48073-0113	48	7	0	9	1	0	14	3	0	5	25	0	0	0	0	1555	259	1319	1148

Oil Condition / Particle Count (ct/ml)	ST	OXI	NIT	SUL	W	A	V100	PQI	180	4µ	6µ	10µ	14µ	18µ	21µ	30µ	50µ
D100-48073-0113	0	6	6	17	N	N	7.0	4	21/17/14	13437	883	294	138	103	82	44	28

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, NAV = Salt Water, FL = Flash Point, TAN = Total Acid Number, TBN = Total Base Number, V20 = Viscosity@100C, V40 = Viscosity@40C, PVI = Particle Volume Indicator

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COMPANY NAME : RITCHEE EQUIPMENT, INC.  
 CUSTOMER EQUIP NUM : 10-2  
 COMPARTMENT NAME : DIFFERENTIAL FRONT  
 SERIAL NUMBER : 8V000800  
 MANUFACTURER : CATERPILLAR  
 MODEL : 988F  
 JOB SITE :  
 EXT WARR NUMBER :

FAX :  
 PHONE :  
 SAMPLE TYPE: **OIL**  
 SAMPLE SHIP TIME (day) : 2

SHOP JOB NUM : 0286040  
 COMP SERIAL NUM :  
 COMPARTMENT MODEL :  
 COMP MANUFACTURER :  
 SAMPLE LABEL NUM :  
 FLUID BRAND/WEIGHT :  
 FLUID TYPE :  
 EXT WARR EXPIRE DATE :  
 FUEL CONSUMED :

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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
D100-49073-0141	12-Mar-2019	14-Mar-2019	21825 HR	0	No			

No Action Required

NO PROBLEMS PRESENTLY ASSOCIATED WITH THIS SAMPLE. CONTINUE SAMPLING AT THE NORMAL INTERVAL.

Wear Metals (ppm)	Cu	Fe	Cr	Al	Pb	Sn	Si	Na	K	B	Mo	Ni	Ag	Ti	V	Ca	Mg	Zn	P
D100-49073-0141	21	141	0	6	1	1	32	3	0	10	1	0	0	0	0	1884	10	843	772

Oil Condition / Particle Count (cf/ml)	W	V100	PQI	ISO
D100-49073-0141	N	15.5	84	NORMAL

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

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COMPANY NAME : RITCHIE EQUIPMENT, INC.  
CUSTOMER EQUIP NUM : 10-2  
COMPARTMENT NAME : DIFFERENTIAL REAR  
SERIAL NUMBER : 8V600800  
MANUFACTURER : CATERPILLAR  
MODEL : 988F  
JOB SITE :  
EXT WARR NUMBER :

SHOP JOB NUM : 0286040  
COMP SERIAL NUM :  
COMPARTMENT MODEL :  
COMP MANUFACTURER :  
SAMPLE LABEL NUM :  
FLUID BRAND/WEIGHT :  
FLUID TYPE :  
EXT WARR EXPIRE DATE :  
FUEL CONSUMED :

PHONE :  
FAX :  
SAMPLE TYPE: **OIL**  
SAMPLE SHIP TIME (day/s) : 2

EXT WARR NUMBER :

EXT WARR EXPIRE DATE :  
FUEL CONSUMED :

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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
D100-48073-0142	12-Mar-2019	14-Mar-2019	21825 HR	0	No			

No Action Required

NO PROBLEMS PRESENTLY ASSOCIATED WITH THIS SAMPLE. CONTINUE SAMPLING AT THE NORMAL INTERVAL.

Wear Metals (ppm)																			
	Cu	Fe	Cr	Al	Pb	Sn	Si	Na	K	B	Mo	Ni	Ag	Ti	V	Ca	Mg	Zn	P
D100-48073-0142	27	133	0	7	1	0	22	8	0	114	0	0	0	0	0	3855	24	1398	1284

Oil Condition / Particle Count (ct/ml)	W	V100	PQI	ISO
	D100-48073-0142	N	10.8	32

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, TEN = Total Sapon Number, H2O = Karl Fisher result, V100 = Viscosity@100C, V40 = Viscosity@40C, PVI = Particle Volume Indicator

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COMPANY NAME : RITCHEE EQUIPMENT, INC.  
 CUSTOMER EQUIP NUM : 10-2  
 COMPARTMENT NAME : FINAL DRIVE FRONT RIGHT  
 SERIAL NUMBER : 8V300900  
 MANUFACTURER : CATERPILLAR  
 MODEL : 988F  
 PHONE :  
 JOB SITE :  
 SAMPLE TYPE: OIL  
 EXT WARR NUMBER :  
 SHOP JOB NUM :  
 COMP SERIAL NUM :  
 COMPARTMENT MODEL :  
 COMP MANUFACTURER :  
 SAMPLE LABEL NUM :  
 FLUID BRAND/WEIGHT :  
 FLUID TYPE :  
 EXT WARR EXPIRE DATE :  
 FUEL CONSUMED :



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LAB CONTROL NUMBER: D100-49088-0146    SAMPLE DATE: 26-Mar-2019    PROCESS DATE: 27-Mar-2019    EQUIPMENT METER: 21827 HR    METER ON FLUID: 0    FLUID CHANGED: Unknown    MAKE UP FLUID:    MAKE UP FLUID UNITS:    FILTER CHANGED:

No Action Required

NO PROBLEMS PRESENTLY ASSOCIATED WITH THIS SAMPLE. CONTINUE SAMPLING AT THE NORMAL INTERVAL.

Wear Metals (ppm)	D100-49088-0148																		
	Cu	Fe	Cr	Al	Pb	Sn	Si	Na	K	B	Mo	Ni	Ag	Ti	V	Ca	Mg	Zn	P
23	192	1	6	0	0	45	3	0	12	1	0	0	1	0	2418	12	1081	877	

Oil Condition / Particle Count (ct/ml)	W	V100	PQI	ISO
D100-49088-0148	N	15.8	131	NORMAL

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, NT = 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 : RITCHIE EQUIPMENT, INC.  
SHOP JOB NUM :  
CUSTOMER EQUIP NUM : 10-2  
COMP SERIAL NUM :  
DEPARTMENT NAME : FINAL DRIVE FRONT LEFT  
COMPARTMENT MODEL :  
SERIAL NUMBER : 8V600900  
COMP MANUFACTURER :  
MANUFACTURER : CATERPILLAR  
SAMPLE LABEL NUM :  
MODEL : 988F  
FLUID BRAND/WEIGHT :  
PHONE :  
JOB SITE :  
FLUID TYPE :  
SAMPLE TYPE : **OIL**  
EXT WARR NUMBER :  
EXT WARR EXPIRE DATE :  
FUEL CONSUMED :



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LAB CONTROL NUMBER : D100-49086-0148    SAMPLE DATE : 26-Mar-2019    PROCESS DATE : 27-Mar-2019    EQUIPMENT METER : 21827 HR    METER ON FLUID : 0    FLUID CHANGED : Unknown    MAKE UP FLUID :    MAKE UP FLUID UNITS :    FILTER CHANGED :

No Action Required

NO PROBLEMS PRESENTLY ASSOCIATED WITH THIS SAMPLE. CONTINUE SAMPLING AT THE NORMAL INTERVAL.

Wear Metals (ppm)	Wear Metals (ppm)																		
	Cu	Fe	Cr	Al	Pb	Sn	Si	Na	K	B	Mo	Ni	Ag	Ti	V	Ca	Mg	Zn	P
D100-49086-0148	24	178	1	8	0	1	41	3	0	13	1	0	0	0	0	2379	12	1089	890

Oil Condition / Particle Count (caust)	W	V100	PQI	ISO
D100-49086-0148	N	18.0	141	NORMAL

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 = Seal, 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, FVI = Particle Volume Indicator

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COMPANY NAME : RITCHEE EQUIPMENT, INC.  
 CUSTOMER EQUIP NUM : 10-2  
 COMPARTMENT NAME : FINAL DRIVE REAR RIGHT  
 SERIAL NUMBER : 8VGD0800  
 MANUFACTURER : CATERPILLAR  
 MODEL : 988F  
 JOB SITE :  
 EXT WARR NUMBER :  
 SHOP JOB NUM :  
 COMP SERIAL NUM :  
 COMPARTMENT MODEL :  
 COMP MANUFACTURER :  
 SAMPLE LABEL NUM :  
 FLUID BRAND/WEIGHT :  
 FLUID TYPE :  
 EXT WARR EXPIRE DATE :  
 FUEL CONSUMED :



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LAB CONTROL NUMBER: D100-49086-0147    SAMPLE DATE: 26-Mar-2019    PROCESS DATE: 27-Mar-2019    EQUIPMENT METER: 21827 HR    METER ON FLUID: 0    FLUID CHANGED: Unknown    MAKE UP FLUID:    MAKE UP FLUID UNITS:    FILTER CHANGED:

No Action Required

NO PROBLEMS PRESENTLY ASSOCIATED WITH THIS SAMPLE. CONTINUE SAMPLING AT THE NORMAL INTERVAL.

Wear Metals (ppm)	Cu	Fe	Cr	Al	Pb	Sn	Si	Na	K	B	Mo	Ni	Ag	Ti	V	Ca	Mg	Zn	P
D100-49086-0147	25	143	1	6	1	0	20	5	0	160	0	0	0	0	0	3502	22	1230	1116

Oil Condition / Particle Count (ct/ml)	W	V100	PQI	ISO
D100-49086-0147	N	10.4	38	NORMAL

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

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COMPANY NAME : RITCHEE EQUIPMENT, INC.  
 CUSTOMER EQUIP NUM : 10-2  
 COMPARTMENT NAME : FINAL DRIVE REAR LEFT  
 SERIAL NUMBER : 8YG00800  
 MANUFACTURER : CATERPILLAR  
 MODEL : 988F  
 JOB SITE :  
 EXT WARR NUMBER :  
 SHOP JOB NUM :  
 COMP SERIAL NUM :  
 COMPARTMENT MODEL :  
 COMP MANUFACTURER :  
 SAMPLE LABEL NUM :  
 FLUID BRAND/WEIGHT :  
 FLUID TYPE :  
 EXT WARR EXPIRE DATE :  
 FUEL CONSUMED :



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 540-387-1111  
 www.catermachinery.com

LAB CONTROL NUMBER	SAMPLE DATE	PROCESS DATE	EQUIPMENT METER	METER ON FLUID	FLUID CHANGED	MAKE UP FLUID	MAKE UP FLUID UNITS	FILTER CHANGED
D100-49088-0145	26-Mar-2019	27-Mar-2019	21827 HR	0	Unknown			
<div style="border: 2px solid green; padding: 5px; display: inline-block;">           No Action Required         </div>								
NO PROBLEMS PRESENTLY ASSOCIATED WITH THIS SAMPLE. CONTINUE SAMPLING AT THE NORMAL INTERVAL.								

Wear Metals (ppm)	Wear Metals (ppm)																		
	Cu	Fe	Cr	Al	Pb	Sn	Si	Na	K	B	Mo	Ni	Ag	Ti	V	Ca	Mg	Zn	P
D100-49088-0145	22	130	0	8	0	1	18	5	0	157	0	0	0	0	0	3289	20	1161	1049

Oil Contention / Particle Count (ppm)	W	V100	PQI	ISO
	D100-49088-0145	N	11.4	36

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, NAV = Sulf 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.