

COMPANY NAME :  
 CUSTOMER EQUIP NUM : 11  
 COMPARTMENT NAME : ENGINE  
 SERIAL NUMBER :

SHOP JOB NUM :  
 COMP SERIAL NUM :  
 COMPARTMENT MODEL :  
 COMP MANUFACTURER :  
 SAMPLE LABEL NUM :  
 FLUID BRAND/WEIGHT : Shell Rotella15W-40  
 FLUID TYPE :  
 EXT WARR EXPIRE DATE :

**Cleveland  
Brothers**



FAX :  
 PHONE :  
 SAMPLE TYPE : OIL  
 SAMPLE SHIP TIME (days): 1  
 MANUFACTURER : FENDL  
 MODEL : 335  
 JOB SITE : 12-076  
 EXT WARR NUMBER :

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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
B150-51089-0331	29-Mar-2021	30-Mar-2021	0	700 HR	Yes			
Monitor Compartment	THE VISCOSITY IS SLIGHTLY LOW BASED ON 15W-40 OIL SPECS. 0.5% OF FUEL IS ACCEPTABLE FOR A TYPICAL SERVICE INTERVAL. PLEASE CONFIRM WEIGHT/BLEND OF OIL USED IN THIS COMPARTMENT. ENSURE OIL TRANSFER IS NOT POSSIBLE/OCCURRING. VISCOSITY CAN BE AFFECTED BY SHEARING OF THE OIL AS WELL. SINCE THE OIL WAS CHANGED AT SAMPLE TIME, RESAMPLE IN 3,000 MILES TO CONTINUE TO MONITOR AND ENSURE CONTAMINATION/DEBRIS NO LONGER REMAINS.							
B150-51076-0101	13-Mar-2021	17-Mar-2021	0	6290 HR	Unknown			
Action Required	IRON APPEARS ELEVATED. MAY INDICATE SYSTEM WEAR. EXAMINE THE OIL, INSPECT ANY SCREEN(S) OIL FILTER(S) FOR LARGE DEBRIS. CHANGE OIL AND SUGGEST FLUSHING SYSTEM WITH AN APPROPRIATE FLUID TO PURGE ANY HARMFUL CONTAMINANTS. RESAMPLE 50 HOURS AFTER CORRECTIVE ACTION HAS BEEN TAKEN.							
B150-50323-0108	07-Nov-2020	18-Nov-2020	133824 HR	5468 HR	Yes			
No Action Required	NORMAL WEAR METAL READINGS. CONTINUE NORMALLY SCHEDULED SAMPLING.							
B150-50253-0408	07-Sep-2020	09-Sep-2020	128356 HR	4052 HR	Yes			
No Action Required	NORMAL WEAR METAL READINGS. CONTINUE NORMALLY SCHEDULED SAMPLING.							

Wear Metals (ppm)	Cu	Fe	Cr	Al	Pb	Sn	Si	Na	K	Mo	Ni	Ca	Mg	Zn	P
B150-51089-0331	0	27	0	0	0	0	1	0		2	0	3097	31	1479	1321
B150-51076-0101	0	110	0	0	0	0	1	3	0	0	0	1980	17	1048	837
B150-50323-0108	3	17	0	0	0	0	3	7	0	0	1	1909	20	1057	862
B150-50253-0408	0	4	0	0	0	0	1	18	0	0	0	1772	17	1003	844

Oil Condition / Particle Count (ct/ml)	ST	OXI	NIT	SUL	W	A	F	PFC	V100
B150-51089-0331	1	17	7	25	N	N	N	0.52	11.9
B150-51076-0101	9	19	9	26	N	N	N		14.0
B150-50323-0108	7	18	9	26	N	N	N		14.4
B150-50253-0408	7	18	9	25	N	N	N		14.4

Ag = Silver, Al = Aluminum, B = Boron, Ca = Calcium, Cr = Chromium, Cu = Copper, Fe = Iron, P = Phosphorus, K = Potassium, Mg = Magnesium, Mo = Molybdenum, Na = Sodium, 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, NaIW = Salt Water, FL Pt = Flash Point, TAN = Total Acid Number, TBN = Total Base Number, H2O = Karl Fisher result, V100 = Viscosity@100C, V40 = Viscosity@40C

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.