

CONTACT INFORMATION

EQUIPMENT
EQUIP NUM: B15005
SERIAL NUMBER: 8TM00560
MODEL : D6R
MANUFACTURER : CAT
COMPANY NAME : IRON RIDGE CO
JOB SITE :
AREA:
REGION:

SAMPLE INFORMATION
COMPARTMENT NAME : ENGINE
COMP SERIAL NUM:
COMPARTMENT MODEL :
LABEL#:
SHOP JOB NUM : B15005
SAMPLE TYPE: OIL
SAMPLE SHIP TIME (days) : 6
SAMPLE LOCATION :

Interp By: LAB

<b>Action Required</b>	<p>SODIUM AND/OR POTASSIUM ARE SLIGHTLY HIGH. THESE ARE USUALLY EARLY INDICATIONS OF A COOLANT LEAK. POSITIVE RESULT ON CHEMICAL TEST FOR GLYCOL. CHECK FOR COOLANT GETTING INTO THE OIL. ANTIFREEZE IN THE OIL REQUIRES ATTENTION TO PREVENT A POSSIBLE FAILURE. ALSO SUGGEST CUTTING OIL FILTER OPEN, PULLING OUT PLEATS AND CHECKING FOR METAL PIECES. POSSIBLE SOURCES INCLUDE A LEAKING HEAD GASKET, LINER SEAL, COOLER CORE, WATER PUMP, NRS COOLER, ETC.</p> <p>PRIORITY: <b>Normal</b></p> <p>LAB # E500-50171-0045</p>
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**WEAR/CONTAMINATION - ADDITIVES/FORMULATION**

SAMPLE DATE	SAMPLE ID	METER	METER ON FLUID	FLUID CHANGE	FILTER CHANGE	Cu	Fe	Cr	Al	Pb	Sn	Si	Na	K	Mo	Ni	Ag	Ti	V	Mn	Cd	Ca	P	Zn	Mg	Ba	B
13-Jun-20	E500-50171-0045	24645.0		U	U	1	23	0	0	0	2	7	33	5	43	0	0	0	0	0	0	1687	779	929	569	0	60
19-Nov-18	E500-48330-0110	23899		Y	U	2	88	1	0	0	1	6	66	23	13	0	0	0	0	1	0	1532	753	861	727	0	41
28-Jun-18	E500-48214-0225	23405	250	Y	Y	13	82	2	0	1	1	6	13	5	7	0	0	0	0	1	0	1680	810	930	749	0	50
22-Jun-18	E500-48179-0022	23150	250	Y	Y	22	39	1	0	1	0	4	6	5	7	0	0	0	0	1	0	1581	769	898	692	0	64
30-Nov-17	E500-47339-0302	22913	233	Y	Y	7	37	1	1	0	1	7	14	5	13	0	0	0	0	0	0	1510	772	923	683	0	55
30-Aug-17	E500-47249-0397	22678		Y	Y	1	28	1	2	1	0	4	5	1	47	0	0	0	0	0	0	1393	998	1161	775	0	16
22-Jul-17	E500-47208-0088	22520		Y	Y	3	52	2	2	1	0	6	12	3	5	0	0	0	0	0	0	2357	954	1112	35	0	76

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

SAMPLE DATE	SAMPLE ID	FLUID BRAND	FLUID TYPE	FLUID WEIGHT	FLUID CHANGE	FILTER CHANGE	V100	ST	OXI	SUL	NIT	W	A	F	PFc	PQI
13-Jun-20	E500-50171-0045	MOBIL		10W-30	U	U	11.5	18	19	23	5	N	P	N		13
19-Nov-18	E500-48330-0110	MOBIL		10W-30	Y	U	12.6	122	14	23	11	N	T	N		14
28-Jun-18	E500-48214-0225	MOBIL		10W-30	Y	Y	13.2	176	15	27	12	N	N	N		95
22-Jun-18	E500-48179-0022	MOBIL		10W-30	Y	Y	12.8	111	16	24	10	N	N	N	1.96	20
30-Nov-17	E500-47339-0302	MOBIL		10W-30	Y	Y	12.1	85	15	23	9	N	N	N	2.79	17
30-Aug-17	E500-47249-0397	MOBIL		10W-30	Y	Y	12.7	56	13	20	7	N	N	N		1
22-Jul-17	E500-47208-0088	MOBIL		15W-40	Y	Y	11.7	100	18	24	9	N	N	N	2.12	8

A = Antifreeze, Ag = Silver, Al = Aluminum, B = Boron, Ba = Barium, Ca = Calcium, Cd = Cadmium, Cr = Chromium, Cu = Copper, F = Fuel, Fe = Iron, K = Potassium, Mg = Magnesium, Mn = Manganese, Mo = Molybdenum, NIT = Nitration, Na = Sodium, Ni = Nickel, OXI = Oxidation, P = Phosphorus, PQI = Particle Quantifying index, Pb = Lead, ST = Soot, SUL = Sulfation, Si = Silicon, Sn = Tin, Ti = Titanium, V = Vanadium, V100 = Viscosity@100C, W = Water, Zn = Zinc

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.