



Milton

SOS SERVICES LABORATORY
100 QUARRY DRIVE
MILFORD, MA 01757
508-482-5700
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COMPANY NAME : ██████████ SHOP JOB NUM :
CUSTOMER EQUIP NUM : 6076 COMP SERIAL NUM :
COMPARTMENT NAME : ENGINE COMPARTMENT MODEL :
SERIAL NUMBER : GP-9 COMP MANUFACTURER :
MANUFACTURER : ELECTRO-MOTIVE DIV SAMPLE LABEL NUM :
MODEL : GP9_EMD FLUID BRAND/WEIGHT : 40
JOB SITE : FLUID TYPE :
EXT WARR NUMBER : EXT WARR EXPIRE DATE :

JOHN NORTON

FAX :
PHONE :
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
B420-45279-0022	28-Sep-2015	06-Oct-2015	0	0	No			No
Monitor Compartment	SOOT & SODIUM LEVELS APPEAR TO BE TRENDING UPWARD AND ELEVATED. SODIUM MAY BE DUE TO A MINOR COOLANT LEAK, OR INTRODUCED FROM EXTERNAL SOURCES. MODERATELY ELEVATED SOOT LEVEL MAY RELATE TO INTAKE RESTRICTION, A/F RATIO, ENG. TEMP. OIL SERVICE. DIAGNOSIS MAY REQUIRE CHECKING BLOWBY, TURBO BOOST, EXHAUST TEMPERATURES, OIL CONSUMPTION, ETC ... INSPECT FILTERS FOR GLYCOL SLUDGE BY CUTTING OPEN. CHANGE OIL AND FILTER IF NOT ALREADY CHANGED AND RESAMPLE AT THE PERIL AS OIL SAMPLE INTERVAL							
B420-45218-0135	16-Jul-2015	06-Aug-2015	0	0	No	50	GAL	Yes
No Action Required	NORMAL WEAR METAL READINGS. OTHER READINGS APPEAR TO BE NORMAL. CONTINUE TO MONITOR AT RECOMMENDED OIL SAMPLE INTERVALS. TO RECEIVE FULL VALUE, CONTINUE TO SUBMIT SAMPLES AT REGULAR INTERVALS TO ESTABLISH A WEAR TREND.							
B420-44290-0008	15-Oct-2014	17-Oct-2014	0	0	Unknown			
Monitor Compartment	SOOT & SODIUM LEVELS APPEAR TO BE TRENDING UPWARD AND ELEVATED. SODIUM MAY BE DUE TO A MINOR COOLANT LEAK, OR INTRODUCED FROM EXTERNAL SOURCES. MODERATELY ELEVATED SOOT LEVEL MAY RELATE TO INTAKE RESTRICTION, A/F RATIO, ENG. TEMP. OIL SERVICE. DIAGNOSIS MAY REQUIRE CHECKING BLOWBY, TURBO BOOST, EXHAUST TEMPERATURES, OIL CONSUMPTION, ETC ... INSPECT FILTERS FOR GLYCOL SLUDGE BY CUTTING OPEN. CHANGE OIL AND FILTER IF NOT ALREADY CHANGED AND RESAMPLE AT THE PERIL AS OIL SAMPLE INTERVAL							
B420-43350-0151	03-Dec-2013	16-Dec-2013	0	0	No			No
Monitor Compartment	SODIUM & SOOT LEVELS APPEAR TO BE TRENDING UPWARD AND ELEVATED. SODIUM MAY BE DUE TO A MINOR COOLANT LEAK, OR INTRODUCED FROM EXTERNAL SOURCES. INSPECT FILTERS FOR GLYCOL SLUDGE BY CUTTING OPEN. MODERATELY ELEVATED SOOT LEVEL MAY RELATE TO INTAKE RESTRICTION, A/F RATIO, ENG. TEMP. OIL SERVICE. DIAGNOSIS MAY REQUIRE CHECKING BLOWBY, TURBO BOOST, EXHAUST TEMPERATURES, OIL CONSUMPTION, ETC ... CHANGE OIL & FILTER IF NOT ALREADY CHANGED & RESAMPLE AT THE REGULAR OIL SAMPLE INTERVAL							

Wear Metals (ppm)	Cu	Fe	Cr	Al	Pb	Sn	Si	Na	K	Mo	Ni	Ag	Ti	Ca	Mg	Zn	P	Ba
B420-45279-0022	22	50	10	2	9	0	7	32	4	66	0	0	0	2927	11	13	79	0
B420-45218-0135	28	59	11	2	9	0	7	43	2	64	0	0	0	2993	9	13	81	0
B420-44290-0008	23	39	8	2	8	0	6	32	4	65	0	0	0	2821	10	11	74	0
B420-43350-0151	16	32	5	2	7	0	4	31	2	61	0	0	1	2900	5	10	77	0

Oil Condition / Particle Count (ct/ml)	ST	OXI	NIT	SUL	W	A	F	PFC	V100	PQI
B420-45279-0022	87	9	11	20	N	N	N	0.81	15.1	18
B420-45218-0135	102	10	11	21	N	N	N	1.11	15.0	16
B420-44290-0008	83	9	10	18	N	N	N	0.70	15.1	4
B420-43350-0151	63	9	11	21	N	N	N		14.5	7

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, 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
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.