

EVEN KEEL MARINE SURVEY

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SAMPLE TYPE: OIL
SAMPLE SHIP TIME (days): 5

COMPANY NAME : EVEN KEEL MARINE SURVEY - BILL SH.
CUSTOMER EQUIP NUM : SEARAY 310/PORT
COMPARTMENT NAME : ENGINE MARINE
SERIAL NUMBER : L677286
MANUFACTURER : MERCUISER
MODEL : 350HORIZON_MERCUISER
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 :

Milton

CAT

SOS SERVICES LABORATORY
100 QUARRY DRIVE
MILFORD, MA 01757
508-482-5700
oil_analysis@miltoncat.com

LAB CONTROL NUMBER	SAMPLE DATE	PROCESS DATE	EQUIPMENT METER	METER ON FLUID	FLUID CHANGED	MAKE UP FLUID	MAKE UP FLUID UNITS	FILTER CHANGED
B420-51243-0033	26-Aug-2021	31-Aug-2021	1200 HR	20 HR	Unknown			Unknown
Monitor Compartment	PERCENT GLYCOL BY GAS CHROMATOGRAPH IS 0 (NEGATIVE) AT THIS TIME; HOWEVER, SODIUM AND POTASSIUM ARE ELEVATED. SODIUM & POTASSIUM MAY BE RESIDUALS OF A MINOR COOLANT LEAK. INSPECT FILTERS FOR GLYCOL SLUDGE BY CUTTING OPEN. MONITOR COOLANT LEVELS. THIS SAMPLE CAME BACK WITH 7.59% FUEL DILUTION. FUEL DILUTION MAY BE DUE TO EXCESSIVE IDLING. MONITOR FUEL LEVELS. IRON AND PQ APPEAR HIGH. PQ INDICATES FERROUS OR IRON PARTICLES IN THE OIL. SUGGEST CUTTING OPEN AND INSPECTING THE OIL FILTER FOR VISIBLE PARTICULATES. CHANGE OIL AND FILTER IF NOT ALREADY CHANGED AND RESAMPLE AT 1/2 THE REGULAR OIL SAMPLE INTERVAL.							

Wear Metals (ppm)	Cu	Fe	Cr	Al	Pb	Sn	Si	Na	K	B	Mo	Ni	Ag	Ti	Ca	Mg	Zn	P	Ba
B420-51243-0033	7	218	17	0	1	0	10	844	42	193	45	3	0	0	2091	110	957	803	0

Oil Condition / Particle Count (ct/ml)	ST	OXI	NIT	SUL	W	A	F	PFC	V100	PQI
B420-51243-0033	0	14	8	19	N	N	P	7.59	12.9	35

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.