

ELTRAK BULGARIA

Ms. ANNA IVANOVA

FAX:

PHONE:

SAMPLE TYPE: OIL

SAMPLE SHIP TIME (days) : 4

COMPANY NAME : ELTRAK BULGARIA_M530

CUSTOMER EQUIP NUM : P6C00562

COMPARTMENT NAME : ENGINE

SERIAL NUMBER : P6C00562

MANUFACTURER : CATERPILLAR

MODEL : 966M_XE

JOB SITE :

EXT WARR NUMBER :

SHOP JOB NUM : 0145232

COMP SERIAL NUM :

COMPARTMENT MODEL :

COMP MANUFACTURER :

SAMPLE LABEL NUM : 251506769

FLUID BRAND/WEIGHT : CAT/10W-30

FLUID TYPE : DEO -ULS(CK-4)

EXT WARR EXPIRE DATE :

eltrak

CAT®

Eltrak Bulgaria

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1331, Sofia Bulgaria

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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
M530-54330-0011	21-Nov-2024	25-Nov-2024	16489 HR	500 HR	Yes			Yes
Monitor Compartment	FUEL CONTAMINATION (GREATER THAN 6%) DETECTED. LOW OIL VISCOSITY AND FUEL TEST INDICATE A MODERATE AMOUNT FUEL DILUTION. NORMAL WEAR METAL READINGS. OTHER ANALYSIS READINGS APPEAR TO BE ACCEPTABLE. INTERVENTION IS NOT NEEDED AT THIS TIME. SAMPLE 250 HOURS TO MONITOR.							
M530-54276-0012	26-Sep-2024	02-Oct-2024	1667 HR	500 HR	Yes	24		Yes
Monitor Compartment	NORMAL WEAR METAL READINGS. VISCOSITY IS LOW FOR A 15W-40 GRADE OIL. CONFIRM THE VISCOSITY GRADE OF THE OIL. IF OIL GRADE IS 15W-40, THEN FUEL CONTAMINATION (GREATER THAN 6%) DETECTED. LOW OIL VISCOSITY AND FUEL TEST INDICATE A HIGH LEVEL OF FUEL DILUTION. INTERVENTION IS NEEDED. STOP MACHINE AND INSPECT ENGINE. POSSIBLE CAUSES OF FUEL DILUTION ARE: LEAKING INJECTORS, INJECTOR O-RINGS, FAILED INJECTORS, FUEL TRANSFER PUMP AND ENGINE OVER FUELING. IF NOT YET PERFORMED CHANGE OIL AND FILTER, REPAIR AS NEEDED AND SAMPLE IN 195 HOURS TO MONITOR. IF NOT THEN NO PROBLEMS PRESENTLY ASSOCIATED WITH THIS SAMPLE.							
M530-54010-0015	19-Dec-2023	10-Jan-2024	14423 HR	500 HR	Yes			Yes
No Action Required	NORMAL WEAR METAL READINGS. OTHER ANALYSIS READINGS APPEAR TO BE ACCEPTABLE. CONTINUE NORMALLY SCHEDULED SAMPLING.							
M530-53324-0018	09-Nov-2023	20-Nov-2023	14057 HR		Yes			Yes
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	Mn	Cd	Ca	Mg	Zn	P	Ba
M530-54330-0011	0	7	0	0	0	0	3	0	3	35	35	0	0	0	0	0	0	1564	525	1109	958	0
M530-54276-0012	0	10	0	2	0	0	6	2	5	25	33	0	0	0	0	0	0	1453	467	999	867	0
M530-54010-0015	0	5	0	0	0	0	3	2	0	40	34	0	0	0	0	0	0	1529	492	1066	886	0
M530-53324-0018	1	6	0	3	0	0	4	3	2	35	34	0	0	0	0	0	0	1536	473	1051	893	0

Oil Condition / Particle Count (ct/ml)	ST	OXI	NIT	SUL	W	F	PFC	V100
M530-54330-0011	6	23	0	23	N	P	7.4	9.19
M530-54276-0012	7	25	0	24	N	P	7.1	9.478
M530-54010-0015	6	22	0	23	N	N		9.407
M530-53324-0018	7	22	0	23	N	N		9.900

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.