

ELKHORN PAVING CO

**P.O. BOX 168
NORFOLK, NE 68702**

FAX: 402-371-4916

PHONE: 402-371-7710

SAMPLE TYPE: OIL

SAMPLE SHIP TIME (days): 13

COMPANY NAME : ELKHORN PAVING CO
 CUSTOMER EQUIP NUM : EHE6
 COMPARTMENT NAME : ENGINE
 SERIAL NUMBER : 4JN02000
 MANUFACTURER : CATERPILLAR
 MODEL : D6M
 JOB SITE :
 EXT WARR NUMBER :

SHOP JOB NUM :
 COMP SERIAL NUM :
 COMPARTMENT MODEL :
 COMP MANUFACTURER :
 SAMPLE LABEL NUM : 0037
 FLUID BRAND/WEIGHT : CAT/10W-30
 FLUID TYPE :
 EXT WARR EXPIRE DATE :
 FUEL CONSUMED :



Fluids Analysis Laboratory
11002 Sapp Bros Drive
Omaha, NE 68138-3828
402-891-8600
www.nebraska-machinery.com

LAB CONTROL NUMBER	SAMPLE DATE	PROCESS DATE	EQUIPMENT METER	METER ON FLUID	FLUID CHANGED	MAKE UP FLUID	MAKE UP FLUID UNITS	FILTER CHANGED
E330-45028-0037	1/15/15	1/28/15	8300 HR		Yes			Yes
Monitor Compartment	UNKNOWN HOURS ON OIL. 4.26% FUEL DILUTION. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE IN 250 HOURS TO MONITOR.							
E330-43036-0033	2/1/13	2/5/13	8234 HR		No			No
No Action Required	UNKNOWN HOURS ON OIL. NORMAL READINGS. SUGGEST TO RESAMPLE AT REGULAR SERVICE INTERVALS TO ESTABLISH METAL WEAR TREND.							

Wear Metals (ppm)	Cu	Fe	Cr	Al	Pb	Sn	Si	Na	K	Mo	Ag	Ca	Mg	Zn	P
E330-45028-0037	0	5	1	2	0	0	4	0	8	37	0	1363	656	1043	882
E330-43036-0033	1	8	1	2	1	0	2	1	0	28	0	1740	600	1212	1028

Oil Condition / Particle Count (ct/ml)	ST	OXI	NIT	SUL	W	A	F	PFC	V100
E330-45028-0037	0	17	8	19	N	N	N	4.26	11.6
E330-43036-0033	5	19	10	21	N	N	N	0.43	11.3

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.

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SAMPLE TYPE: **OIL**

SAMPLE SHIP TIME (days) 10

COMPANY NAME : ELKHORN PAVING CO
 CUSTOMER EQUIP NUM : EHE6
 COMPARTMENT NAME : HYDRAULIC SYSTEM
 SERIAL NUMBER : 4JN02000
 MANUFACTURER : CATERPILLAR
 MODEL : D6M
 JOB SITE :
 EXT WARR NUMBER :

SHOP JOB NUM :
 COMP SERIAL NUM :
 COMPARTMENT MODEL :
 COMP MANUFACTURER :
 SAMPLE LABEL NUM : 0003
 FLUID BRAND/WEIGHT : CAT/MTO
 FLUID TYPE :
 EXT WARR EXPIRE DATE :
 FUEL CONSUMED :



Fluid Analysis Report
14648 Shepard St, Suite 500
Omaha, NE 68138
nmc-technologies.com / 844-NMC-TECH
lab@nmc-technologies.com

LAB CONTROL NUMBER	SAMPLE DATE	PROCESS DATE	EQUIPMENT METER	METER ON FLUID	FLUID CHANGED	MAKE UP FLUID	MAKE UP FLUID UNITS	FILTER CHANGED
E330-50003-0003	24-Dec-2019	03-Jan-2020	8846 HR	303 HR	No			No
Monitor Compartment	PARTICLE COUNT IS SLIGHTLY ELEVATED. OTHER ANALYSIS READINGS APPEAR TO BE ACCEPTABLE. RESAMPLE IN 250 HOURS TO MONITOR. INTERPRETATION BY MARY C. - LAB MANAGER							
E330-49028-0003	17-Jan-2019	28-Jan-2019	8792 HR		No			No
No Action Required	UNKNOWN HOURS ON OIL. NORMAL READINGS. NO PROBLEMS PRESENTLY ASSOCIATED WITH THIS SAMPLE. CONTINUE SAMPLING AT THE NORMAL INTERVAL. INTERPRETATION BY MARY C. - LAB MANAGER							
E330-47037-0008	01-Feb-2017	06-Feb-2017	8672 HR		No			Yes
No Action Required	UNKNOWN HOURS ON OIL. NORMAL WEAR METAL READINGS. OTHER ANALYSIS READINGS APPEAR TO BE ACCEPTABLE. NO PROBLEMS PRESENTLY ASSOCIATED WITH THIS SAMPLE. CONTINUE SAMPLING AT THE NORMAL INTERVAL. INTERPRETATION BY MARY C. - LAB MANAGER							
E330-46061-0007	25-Feb-2016	01-Mar-2016	8543 HR		Yes			Yes
No Action Required	UNKNOWN HOURS ON OIL. NORMAL READINGS. NO PROBLEMS PRESENTLY ASSOCIATED WITH THIS SAMPLE. CONTINUE SAMPLING AT THE NORMAL INTERVAL. INTERPRETATION BY MARY C. - LAB MANAGER							

Wear Metals (ppm)	Cu	Fe	Cr	Al	Pb	Sn	Si	Na	K	Mo	Ag	Ca	Mg	Zn	P
E330-50003-0003	12	1	0	0	0	0	5	1	0	2	0	2110	214	1281	1046
E330-49028-0003	14	4	0	1	0	0	8	2	1	5	0	2261	255	1297	1051
E330-47037-0008	9	4	0	1	1	0	10	1	1	4	0	2410	250	1318	1056
E330-46061-0007	13	5	0	1	1	0	5	2	0	2	0	1414	413	1195	984

Oil Condition / Particle Count (ct/ml)	ST	OXI	NIT	SUL	W	A	V100	ISO	4µ	6µ	10µ	14µ	18µ	21µ	38µ	50µ
E330-50003-0003	0	9	5	18	N	N	7.8	23/19/14	41454	2584	224	112	46	36	10	4
E330-49028-0003	0	10	5	18	N	N	8.0	21/18/13	14936	1853	146	43	16	16	6	6
E330-47037-0008	0	11	5	18	N	N	8.1	20/17/13	8186	926	182	78	35	23	5	2
E330-46061-0007	0	8	4	15	N	N	7.4	21/17/13	10124	833	165	72	30	20	4	2

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