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444-9566

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20 JUL 1982

From: Commander, Atlantic Division, Naval Facilities Engineering Command
To: Commanding General, Marine Corps Base, Camp Lejeune

Subj: Analysis of Transformer Oil

Encl: (a) Jennings Laboratory Analysis No. 1472

1. Enclosure (1) is forwarded as record of analysis performed at request of MCB CAMP LEJEUNE.
2. LANTNAVFACENGCOM point of contact is Mr. Jerry Wallmeyer at (804) 444-9566 or AUTOVON 690-9566.

J. R. BAILEY, P.E.
By direction

Copy to:
CG MCB CAMP LEJEUNE (Attn: Mr. D. Sharpe
Natural Resources and Environmental Affairs)

Blind Copy to:
114
114S
09BS

WALLMEYER
Dickerson
7/19/82
nrs
Doc.#0110T

LABORATORY MULTIPLE PARAMETER WATER QUALITY ANALYSIS RECORD

FEDERAL ENVIRONMENTAL PROTECTION SUPPORT SERVICE
 ND-CBC-3900/2 (REV. 10-74)
 O900-LL-M90-0022

UIC

SAMPLE IDENTIFICATION

SAMPLE COLLECTION DATE

SAMPLE COLLECTION TIME

SAMPLE STATION NUMBER

MONTH DAY YEAR

0.2400

MCB

ACTIVITY NAME
SAMPLE #5 - "Used Transformer Oil"

LABORATORY NAME
JENNINGS LABORATORIES, INC.

PARAMETER DESCRIPTION	UNITS	DATA ELEMENT NUMBER	VALUE	PARAMETER DESCRIPTION	UNITS	DATA ELEMENT NUMBER	VALUE
SOLIDS	TOTAL SUSPENDED SOLIDS (NON FILTERABLE RESIDUE)	MG/L	00530	ALUMINUM, TOTAL	MG/L	01105	
	TOTAL SOLIDS (TOTAL RESIDUE 103-105°)	MG/L	00500	ARSENIC, TOTAL	MG/L	01002	
	SETTLABLE SOLIDS (SETTLABLE RESIDUE)	ML/L/HR	00545	CADMIUM, TOTAL	MG/L	01027	
	TOTAL DISSOLVED SOLIDS (FILTERABLE RESIDUE)	MG/L	70300	CHROMIUM, TOTAL	MG/L	01034	
NUTRIENTS	N-AMMONIA (AS N)	MG/L	00610	COPPER, TOTAL	MG/L	01042	
	N-NITRATE TOTAL (AS N)	MG/L	00620	IRON, TOTAL	MG/L	01045	
	N-NITRITE TOTAL (AS N)	MG/L	00615	LEAD, TOTAL	MG/L	01051	
	TOTAL N (KJELDAHL)	MG/L	00625	MAGNESIUM, TOTAL	MG/L	00927	
	ORTHOPHOSPHATE (AS PO ₄)	MG/L	00660	MANGANESE, TOTAL	MG/L	01055	
	TOTAL PHOSPHORUS (AS P)	MG/L	00678	MERCURY, TOTAL	MG/L	71900	
	SULFATE	MG/L	00945	POTASSIUM, TOTAL	MG/L	00937	
NON-CATEGORIZED PARAMETER	PH LABORATORY		00403	SILVER, TOTAL	MG/L	01077	
	CHLORIDE	MG/L	00940	ZINC, TOTAL	MG/L	01092	
	TURBIDITY LAB	JTU/FTU	W0072	TOTAL COLIFORM	MFC/100ML	31503	
	BOD	MG/L	00310	FECAL COLIFORM	MFC/100ML	31616	
	COD	MG/L	00340	TOTAL COLIFORM	MPN/100ML	31506	
	TOC	MG/L	00680	FECAL COLIFORM	MPN/100ML	31620	
	OIL AND GREASE	MG/L	70350	PCB	X PPM		None Detected (<0.01 ppm)
	PHENOLS	MG/L	32730				
	MBAS	MG/L	38260				
	CYANIDE	MG/L	00720				

HEAVY METALS

COLIFORM

ADDITIONAL PARAMETERS

REMARKS

SIGNATURE *W. H. Jennings*

DATE
June 16, 1982

1472-6/11/82

\$90.00

NEPSS WATER QUALITY DATA ELEMENT INDEX (BACK)

W7797	AIRCRAFT CLEANING COMPOUND	00927	MAGNESIUM
39330	ALDRIN IN WHOLE WATER SAMPLE	01055	MANGANESE
00410	ALKALINITY, TOTAL (MG/L AS CaCO ₃)	71900	MERCURY
01105	ALUMINUM	38260	METHYLENE BLUE ACTIVE SUBSTANCES
W0079	AMMONIUM PICRATE	W7790	MINERAL FRACTION IN GREASE
01097	ANTIMONY, TOTAL	01062	MOLYBDENUM
01002	ARSENIC	01067	NICKEL
01007	BARIUM	00610	NITROGEN-AMMONIA
W7796	BENZENE	00620	NITROGEN-NITRATE
01012	BERYLLIUM	00615	NITROGEN-NITRITE
00440	BICARBONATE ION (MG/L AS HCO ₃)	W7781	NITROGEN/PHOSPHORUS RATIO
W7777	BIOASSAY, PERCENT SURVIVAL	00600	NITROGEN, TOTAL (MG/L AS N)
W8888	BIOASSAY, TLM ₅₀	00625	NITROGEN, TOTAL KJELDAHL
00310	BIOCHEMICAL OXYGEN DEMAND	00605	NITROGEN, TOTAL ORGANIC
01022	BORON	00085	ODOR TEST READING
W0070	BOTTOM INDICATOR	70350	OIL AND GREASE
W7798	C ₁ -C ₄ SHORT CHAIN HYDROCARBONS	00660	ORTHOPHOSPHATE (MG/L AS PO ₄)
W7799	C ₅ -C ₉ SHORT CHAIN HYDROCARBONS	00090	OXIDATION REDUCTION POTENTIAL
W7800	C ₁₀ -C ₁₂ SHORT CHAIN HYDROCARBONS	00400	PH FIELD
W7801	C ₁₃ -C ₂₀ SHORT CHAIN HYDROCARBONS	00403	PH LABORATORY
01027	CADMIUM	32730	PHENOLS
00916	CALCIUM	00650	PHOSPHATE, TOTAL
28401	CESIUM-137	00678	PHOSPHORUS, TOTAL
00340	CHEMICAL OXYGEN DEMAND	W0055	POLYCHLORINATEDBIPHENYLS
00940	CHLORIDE	00655	POLYPHOSPHATE (MG/L AS PO ₄)
74052	CHLORINATED HYDROCARBON, GENERAL (PERMIT)	00937	POTASSIUM
00365	CHLORINE DEMAND, 15 MINUTE	W0093	PROPYLENE GLYCOL DINITRATE
00369	CHLORINE DEMAND, 30 MINUTE	W0050	RDX
00370	CHLORINE DEMAND, 1 HOUR	W9001	REMARKS, LABORATORY'S
00375	CHLORINE DEMAND, 2 HOUR	00096	SALINITY
00380	CHLORINE DEMAND, 24 HOUR	00077	SECCHI DISC METER READING
50064	CHLORINE, FREE AVAILABLE	01147	SELENIUM
50060	CHLORINE RESIDUAL	00956	SILICA, TOTAL (MG/L AS SiO ₂)
01034	CHROMIUM	01077	SILVER
01032	CHROMIUM, HEXAVALENT	W7780	SLUDGE VOLUME INDEX
01037	COBALT	00929	SODIUM
29601	COBALT-60	W7803	SODIUM CHLORIDE
31616	COLIFORM, FECAL (MFC)	00932	SODIUM, PERCENT
31620	COLIFORM, FECAL (MPN)	00545	SOLIDS, SETTLEABLE
31503	COLIFORM, TOTAL (MFC)	00546	SOLIDS, SETTLEABLE BY WEIGHT
31506	COLIFORM, TOTAL (MPN)	00500	SOLIDS, TOTAL
00081	COLOR	70300	SOLIDS, TOTAL DISSOLVED
W9000	COMMENTS, FIELD COLLECTOR'S	00510	SOLIDS, TOTAL RESIDUAL
00095	CONDUCTIVITY	00530	SOLIDS, TOTAL SUSPENDED
01042	COPPER	00505	SOLIDS, TOTAL VOLATILE
00720	CYANIDE	W7794	STODDARD SOLVENT
39365	DDE	15501	STRONTIUM-90
39370	DDT	00945	SULFATES
W0064	DEPTH	00745	SULFIDES
00300	DISSOLVED OXYGEN	W0077	SULFITES
W0074	DURATION	00010	TEMPERATURE
W7791	FILTERABLE CHEMICAL OXYGEN DEMAND	01059	THALLIUM, TOTAL (AS TL)
W7778	FLOATING SOLIDS	01102	TIN
00056	FLOWRATE	01152	TITANIUM
00951	FLUORIDE	00680	TOTAL ORGANIC CARBON
00910	HARDNESS, CALCIUM (MG/L AS CaCO ₃)	W7783	TOXICITY CONCENTRATION
00920	HARDNESS, MAGNESIUM (MG/L AS CaCO ₃)	W0067	TRANSMISSIBILITY, PERCENT
00900	HARDNESS, TOTAL (MG/L AS CaCO ₃)	W0043	TRI-NITRO TOLUENE
W0051	HMX	00075	TURBIDITY, FIELD
28301	IODINE-131	W0072	TURBIDITY, LABORATORY
01045	IRON	W0073	TYPE SAMPLE
W7782	IRON PLUS MANGANESE	01087	VANADIUM, TOTAL (AS V)
W7795	JP-5	W7779	VISIBLE FOAM
01051	LEAD	01092	ZINC