

01.08-07/01/82-02088

(804) 444-9566

114:JGW:mbe
6280

1 JUL 1982

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

Subj: Waste Oil; analysis of

Ref: (a) 40 CFR 261 EPA Regulations for Identifying Hazardous Wastes

Encl: (1) Jemmings Laboratories, Inc., Laboratory Analysis No. 1471

1. Enclosure (1) is forwarded in response to submittal of samples to this Command for hazardous waste and waste oil characterization analysis.

2. By comparison of enclosure (1) with reference (a) limits, the sample is classified as a hazardous waste if disposed other than burning as a source of useable energy because of lead content of 109.75 mg/l (versus 5.0 mg/l standard).

3. MCB CAMP LEJEUNE should investigate sources of lead (MOGAS, AVGAS, engine oil, waste battery acid, etc.) in order to reduce/eliminate contamination. Also, the cadmium level is approaching hazardous waste limit (0.75 mg/l versus 1.0 mg/l standard) and should likewise be reduced/eliminated. Readily identifiable cadmium sources include battery waste and electroplating operations.

4. LANTNAVFACENGGCOM point of contact is Mr. Jerry Wallmeyer at telephone (804) 444-9566 or A/V 690-9566.

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

Blind Copy to:
114 ←
114S
09BS (w/o encl)
Doc. #0224S

WALLMEYER
Epps
6/30/82
nrs

JENNINGS LABORATORIES, INC.

ANALYTICAL AND CONSULTING CHEMISTS

1118 WYPPRESS AVENUE • P. O. BOX 851 • VIRGINIA BEACH, VA. 23451 • PHONE (804) 425-1498

EPA CERTIFIED LABORATORY for
Drinking Water Analysis - Microbiological,
Inorganic and Organic

ASBESTOS ANALYSIS - NIOSH 582

Official Referee Chemists for:
AMERICAN OIL CHEMISTS SOCIETY
NATIONAL SOYBEAN
PROCESSORS ASSOCIATION

Laboratory Approved by VA. STATE WATER
CONTROL BOARD for Analysis of
Effluents for NPDES PERMITS
CERTIFIED OFFICIAL U.S.D.A. LABORATORY
FOR MEAT ANALYSIS

CERTIFICATE OF ANALYSIS

TO: Mr. Dave Goodwin
Building N-23 Atlantic Division
Naval Facilities Engineering Command
Norfolk, Virginia 23511

DATE: June 25, 1982

SAMPLE OF COMPOSITE OF 4 USED OIL SAMPLES

MARKED MCBCAMP LEJEUNE taken 5/18/82

Samples delivered to laboratory 6/11/82

OFFICIAL SAMPLE BY: _____

IDENTIFICATION OF COMPOSITED SAMPLES: Sample #1-Used Oil 3' below Surface;
Sample #2-Used Oil 7' below surface; Sample #3-Used Oil 11' below surface;
Sample #4-Used Oil 15' below surface (top floating layer only)

Ignitability - Flash Point 75°C. Does not exhibit any characteristics of ignitability as listed in Federal Register Vol.45,#99, May 19, 1980.

Corrosivity - Non Corrosive. Corrodes steel (SAE 1020) at a rate of <0.01 mmpy Does not exhibit the characteristics of corrosivity listed in Federal Register May 19, 1980

Reactivity - Non reactive. Does not exhibit any of the 8 characteristics listed in Federal Register May 19,1980 that indicates reactivity.

BTU 19,268.5 BTU/lb

Water 14.0 %

Sediment 0.05 %

Viscosity 42.4 sec @ 100°F SSU

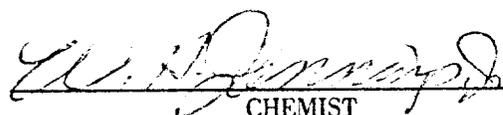
API Gravity @ 60°F 32.6

Corrosive Index - Copper Strip Classification "1A" (slight tarnish)

Sulfur 0.33 %

Respectfully submitted,
JENNINGS LABORATORIES, INC.

Laboratory
Analysis No. 1471


CHEMIST

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SAMPLE OF COMPOSITE OF 4 OIL SAMPLES

MARKED _____

OFFICIAL SAMPLE BY: _____ PAGE -2-

(*) E.P. TOXICITY METALS

LEACHATE

Arsenic	<0.01	mg/l
Barium	7.98	mg/l
Cadmium	0.75	mg/l
Chromium	0.50	mg/l
Lead	109.75	mg/l
Mercury	<0.002	mg/l
Selenium	<0.005	mg/l
Silver	0.08	mg/l

E.P. TOXICITY ORGANICS

Endrin	None Detected	(<0.001 mg/l)
Lindane	None Detected	(<0.002 mg/l)
Methoxychlor	None Detected	(<0.05 mg/l)
Toxaphene	None Detected	(<0.002 mg/l)
2,4,D	None Detected	(<0.002 mg/l)
2,4,5 TP Silvex	None Detected	(<0.002 mg/l)

(*) Note: Solids <.5% Sample treated as Leachate

Respectfully submitted,
JENNINGS LABORATORIES, INC.

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CHEMIST