

LABORATORY ANALYSIS



11525 Rock Island Court, St. Louis, MO 63043
Tel: 1-800-876-0008 info@englube.com

COPELAND (MHDS)
6001 S. 35TH STREET, SUITE D"
REYNOSA, ZZ
US
Contact: GERARDO GUERRERO
francisco.castillo@Copeland.com
T:
F:

Department **REYLAM - TOOL ROOM**
Equipment No. **GRINDTR02 GRINDER (TOOL ROOM) (00131)**
System **Hydraulic System**
Oil Type **ENGINEERED LUBRICANTS ENWAY 15-HWO (--- GAL)**

DIAGNOSIS

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. There is no indication of any contamination in the oil. The system and fluid cleanliness is acceptable. Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

Lab Number	New	2401-00778	2310-00840	2307-00097
Date of Sample	(Typical)	19 Jan 2024	10 Oct 2023	27 Jun 2023
Oil Added		UNK	UNK	UNK
Last Drain Date		--	--	--
Months on Sample		114.1	110.9	107.5
Last Filter Service		--	--	--
Sample Point		---	---	---
Sample Status		ATTENTION	ABNORMAL	SEVERE

VISCOSITY @ 100F OR 40C (ASTM D-445)

SSU Vis. @ 100F	SSU	144.0	163.0	165.4	161.6
cSt Vis. @ 40C	cSt		31.50	31.97	31.22

PARTICLE COUNT (PER 1ML)

ISO CODE	ISO 4406(c)	>25/23/17	21/19/14	21/19/15	25/24/20
4 Micron & Larger	particles/ml	>320000	15,250	10,818	264,620
6 Micron & Larger	particles/ml	>80000	3,532	3,394	119,558
14 Micron & Larger	particles/ml	>1300	120	167	7,284
21 Micron & Larger	particles/ml	>320	21	38	1,400
38 Micron & Larger	particles/ml	>80	1	1	33
70 Micron & Larger	particles/ml	>20	0	0	0

ICP - OILS (REPORTED IN PARTS PER MILLION)

Aluminum (Al)	ppm		<5	<5	<5
Antimony (Sb)	ppm		<5	<5	<5
Cadmium (Cd)	ppm	5	<5	<5	<5
Chromium (Cr)	ppm		<5	<5	<5
Cobalt (Co)	ppm		<5	<5	<5
Copper (Cu)	ppm		<5	<5	<5
Iron (Fe)	ppm		74	<5	103
Lead (Pb)	ppm		<5	<5	<5
Manganese (Mn)	ppm	5	<5	<5	<5
Molybdenum(Mo)	ppm	5	<5	<5	<5
Nickel (Ni)	ppm		<5	<5	<5
Silver (Ag)	ppm		<5	<5	<5
Tin (Sn)	ppm		<5	<5	<5
Titanium (Ti)	ppm		<5	<5	<5
Vanadium (V)	ppm		<5	<5	<5
Barium (Ba)	ppm	5	247	<5	208
Boron (B)	ppm	5	<5	<5	<5
Calcium (Ca)	ppm	5	5	66	<5
Magnesium (Mg)	ppm	5	<5	<5	<5
Phosphorus(P)	ppm	5	605	518	299
Silicon (Si)	ppm	5	<5	<5	<5
Zinc (Zn)	ppm	5	16	631	17
Sulfur (S)	ppm	9540	2,290	1,500	2,100

DR FERROGRAPHY READINGS

L		8.0	7.0	194
S		2.4	0.9	98
WPC	DL + DS	10.4	7.9	292

Customer Id: MOTMCA
Sample No.: EN24010778
Lab Number: 24010778
Test Package: TEST

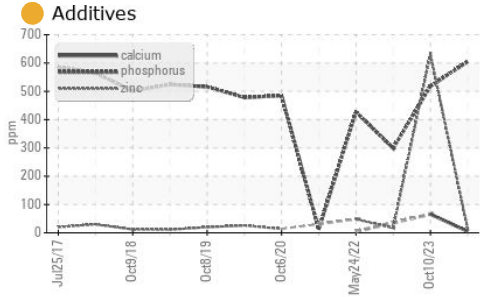


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To discuss the diagnosis or test data:
Brian Klutenkamper +1 (314)872-9540
bklutenkamper@englube.com

To change component or sample information:
Tracy Weaks +1 (314)872-9540
tweaks@englube.com

OIL ANALYSIS REPORT



CONTAMINATION

Water	>0.05	NEG	NEG	NEG
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