

LABORATORY ANALYSIS



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

Department **REYLAM-PRESS**
 Equipment No. **REWSLITTER RECOILER SLITTING PRESS (00108)**
 System **Gearbox**
 Oil Type **ENGINEERED LUBRICANTS ENLUBE 85-EP GEAR OIL (--- GAL)**

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

Diagnosis

We advise that you check for the source of water entry. We recommend that you drain the fluid from the component if this has not already been done. We recommend an early resample to monitor this condition. Iron (Fe) ppm levels are abnormal. Gear wear is indicated. There is a high concentration of water present in the oil. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. Viscosity of sample indicates oil is within ISO 46 range, advise investigate. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Sample Information

Lab Number	New	2404-00909	2401-00773	2310-00833
Date of Sample	(Typical)	05 Apr 2024	19 Jan 2024	10 Oct 2023
Oil Added		UNK	UNK	UNK
Last Drain Date		--	--	--
Months on Sample		174.8	172.3	169.1
Last Filter Service		--	--	--
Sample Point		---	---	---
Sample Status		SEVERE	ABNORMAL	NORMAL

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

SSU Vis. @ 100F	SSU	263.1	847.7	1,123.0
cSt Vis. @ 40C	cSt	220	161.2	212.5

% WATER - KARL FISCHER (ASTM E203)

% Water (KF)	%	2.41	NEG	NEG
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PARTICLE COUNT (PER 1ML)

ISO CODE	ISO 4406(c)	>23/22/16	21/17/12	24/22/18	21/19/14
4 Micron & Larger	particles/ml	>80000	12,276	96,788	10,521
6 Micron & Larger	particles/ml	>40000	765	35,331	3,346
14 Micron & Larger	particles/ml	>640	22	2,060	134
21 Micron & Larger	particles/ml	>160	5	278	31
38 Micron & Larger	particles/ml	>40	0	2	1
70 Micron & Larger	particles/ml	>10	0	0	1

ICP - OILS (REPORTED IN PARTS PER MILLION)

Element	Unit	<5	<5	<5
Aluminum (Al)	ppm	<5	<5	<5
Antimony (Sb)	ppm	<5	<5	<5
Cadmium (Cd)	ppm	<5	<5	<5
Chromium (Cr)	ppm	<5	<5	<5
Cobalt (Co)	ppm	<5	<5	<5
Copper (Cu)	ppm	11	<5	<5
Iron (Fe)	ppm	68	<5	<5
Lead (Pb)	ppm	8	<5	<5
Manganese (Mn)	ppm	5	<5	<5
Molybdenum(Mo)	ppm	<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	<5	<5
Boron (B)	ppm	6	<5	<5
Calcium (Ca)	ppm	46	12	<5
Magnesium (Mg)	ppm	<5	<5	<5
Phosphorus(P)	ppm	234	318	249
Silicon (Si)	ppm	<5	<5	<5
Zinc (Zn)	ppm	449	116	<5
Sulfur (S)	ppm	1,750	2,570	3,150

Customer Id: MOTMCA
 Sample No.: EN24040909
 Lab Number: 24040909
 Test Package: TEST



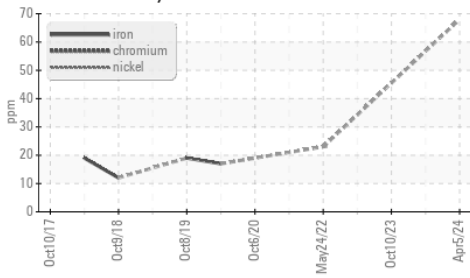
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To discuss the diagnosis or test data:
 Brian Klutenkamper +1 (314)872-9540
bkluitenkamper@englube.com

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

OIL ANALYSIS REPORT

▲ Ferrous Alloys



DR FERROGRAPHY READINGS

L		■ 34.2	■ 23.0	■ 2.3
S		■ 29.4	■ 4.6	■ 0.6
WPC	DL + DS	■ 63.6	■ 27.6	■ 2.9

Water (KF)



Viscosity @ 40°C

