

# LABORATORY ANALYSIS



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Department **REYLAM-PRESS**  
 Equipment No. **MAN14 DEREELEER (LAM LINE 14) (00057)**  
 System **Hydraulic System**  
 Oil Type **ENGINEERED LUBRICANTS ENLUBE 30-AW (--- GAL)**

**COPELAND (MHDS)**  
 6001 S. 35TH STREET, SUITE D"  
 REYNOSA, ZZ  
 US  
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 T:  
 F:

## Diagnosis

Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. L, s, severity index and wpc levels are abnormal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The system cleanliness code is much higher than the acceptable limit for the target ISO 4406 cleanliness code. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

## Sample Information

Lab Number	New	2404-00850	2401-00692	2310-00770
Date of Sample	(Typical)	05 Apr 2024	19 Jan 2024	10 Oct 2023
Oil Added		UNK	UNK	UNK
Last Drain Date		--	--	--
Months on Sample		50.8	48.4	45.1
Last Filter Service		--	--	--
Sample Point		---	---	---
Sample Status		SEVERE	ABNORMAL	ABNORMAL

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

SSU Vis. @ 100F	SSU	347.9	314.6	350.7
cSt Vis. @ 40C	cSt	68.0	67.07	67.60

## COLOR (BASED ON ASTM D1500 STANDARDS)

Color	Scale 0-8	1.5	0.5	1.0
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## PARTICLE COUNT (PER 1ML)

ISO CODE	ISO 4406(c)	>19/18/14	23/20/15	21/18/14	22/19/14
4 Micron & Larger	particles/ml	>5000	62,561	16,330	22,053
6 Micron & Larger	particles/ml	>2500	5,490	2,318	3,733
14 Micron & Larger	particles/ml	>160	259	116	147
21 Micron & Larger	particles/ml	>40	74	33	30
38 Micron & Larger	particles/ml	>10	0	2	2
70 Micron & Larger	particles/ml	>3	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
Chromium (Cr)	ppm	<5	<5	<5
Cobalt (Co)	ppm	<5	<5	<5
Copper (Cu)	ppm	<5	<5	<5
Iron (Fe)	ppm	<5	<5	<5
Lead (Pb)	ppm	<5	<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	<5	<5	<5
Calcium (Ca)	ppm	68	91	61
Magnesium (Mg)	ppm	<5	<5	<5
Phosphorus(P)	ppm	512	504	485
Silicon (Si)	ppm	<5	<5	<5
Zinc (Zn)	ppm	668	567	574
Sulfur (S)	ppm	1,610	1,510	1,430

Customer Id: MOTMCA  
 Sample No.: EN24040850  
 Lab Number: 24040850  
 Test Package: TEST

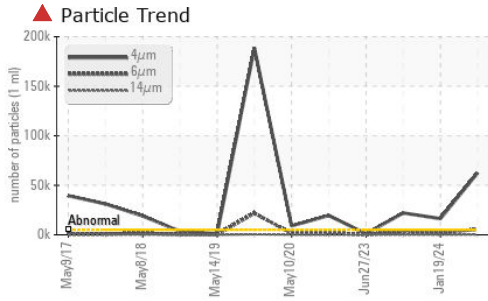


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# OIL ANALYSIS REPORT



### DR FERROGRAPHY READINGS

L		▲ 27.1	■ 15.4	■ 7.6
S		▲ 10.5	■ 4.4	■ 4.6
WPC	DL + DS	▲ 37.6	■ 19.8	■ 12.2

### Contamination

Water	>0.05	<b>NEG</b>	NEG	NEG
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