

# LABORATORY ANALYSIS



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Department **REYLAM-PRESS**  
 Equipment No. **MAN08 DEREELEL (LAM LINE 8) (00045)**  
 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

We recommend you service the filters on this component. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. L, % large particles, severity index and wpc levels are abnormal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The system cleanliness is above the acceptable limit for the target ISO 4406 cleanliness code. The oil viscosity is lower than typical, possibly indicating the addition of lighter grade oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

## Sample Information

Lab Number	New	2404-00840	2401-00681	2310-00759
Date of Sample	(Typical)	05 Apr 2024	19 Jan 2024	10 Oct 2023
Oil Added		UNK	UNK	UNK
Last Drain Date		--	--	--
Months on Sample		169.6	167.1	163.9
Last Filter Service		--	--	--
Sample Point		---	---	---
Sample Status		ABNORMAL	ABNORMAL	SEVERE

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

SSU Vis. @ 100F	SSU	314.4	317.4	351.7
cSt Vis. @ 40C	cSt	68.0	61.28	67.79

## COLOR (BASED ON ASTM D1500 STANDARDS)

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

ISO CODE	ISO 4406(c)	>19/18/14	21/18/14	21/18/13	23/19/15
4 Micron & Larger	particles/ml	>5000	13,903	13,168	48,446
6 Micron & Larger	particles/ml	>2500	2,116	1,512	4,781
14 Micron & Larger	particles/ml	>160	114	59	193
21 Micron & Larger	particles/ml	>40	30	16	39
38 Micron & Larger	particles/ml	>10	0	2	3
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	93	79	64
Magnesium (Mg)	ppm	<5	<5	<5
Phosphorus(P)	ppm	531	456	501
Silicon (Si)	ppm	<5	<5	<5
Zinc (Zn)	ppm	668	543	578
Sulfur (S)	ppm	1,530	1,180	1,550

Customer Id: MOTMCA  
 Sample No.: EN24040840  
 Lab Number: 24040840  
 Test Package: TEST

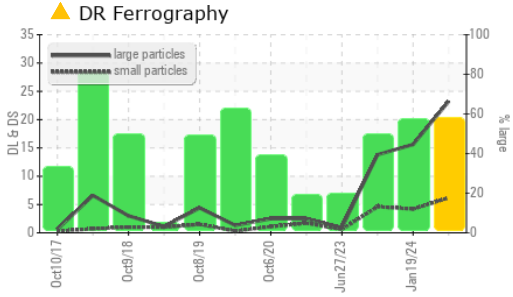


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# OIL ANALYSIS REPORT



### DR FERROGRAPHY READINGS

L		▲ <b>23.2</b>	■ 15.6	■ 13.8
S		■ <b>6.2</b>	■ 4.2	■ 4.6
WPC	DL + DS	▲ <b>29.4</b>	■ 19.8	■ 18.4

### Contamination

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