

LABORATORY ANALYSIS



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Department **REYLAM-PRESS**
 Equipment No. **MAN06 DEREELER (LAM LINE 6) (00041)**
 System **Hydraulic System**
 Oil Type **ENGINEERED LUBRICANTS ENLUBE 30-AW (--- GAL)**

COPELAND (MHDS)
 6001 S. 35TH STREET, SUITE D"
 REYNOSA, ZZ
 US
 Contact: GERARDO GUERRERO
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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	2404-00836	2401-00753	2310-00754
Date of Sample	(Typical)	05 Apr 2024	19 Jan 2024	10 Oct 2023
Oil Added		UNK	UNK	UNK
Last Drain Date		--	--	--
Months on Sample		162.7	160.2	157.0
Last Filter Service		--	--	--
Sample Point		---	---	---
Sample Status		ABNORMAL	ABNORMAL	ABNORMAL

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

SSU Vis. @ 100F	SSU	314.4	314.6	350.6
cSt Vis. @ 40C	cSt	68.0	▲ 60.70	▲ 60.75
				■ 67.58

COLOR (BASED ON ASTM D1500 STANDARDS)

Color	Scale 0-8	1.0	1.0	1.0

PARTICLE COUNT (PER 1ML)

ISO CODE	ISO 4406(c)	>19/18/14	21/19/15	21/19/14	22/19/14
4 Micron & Larger	particles/ml	>5000	▲ 15,671	▲ 17,888	▲ 26,682
6 Micron & Larger	particles/ml	>2500	● 2,645	■ 2,604	▲ 3,548
14 Micron & Larger	particles/ml	>160	● 184	■ 87	■ 120
21 Micron & Larger	particles/ml	>40	● 55	■ 19	■ 32
38 Micron & Larger	particles/ml	>10	■ 3	■ 0	■ 2
70 Micron & Larger	particles/ml	>3	■ 0	■ 0	■ 0

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	■ <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	97	62
Magnesium (Mg)	ppm	<5	<5	<5
Phosphorus(P)	ppm	538	546	501
Silicon (Si)	ppm	<5	<5	<5
Zinc (Zn)	ppm	668	■ 636	■ 646
Sulfur (S)	ppm		1,540	1,530
				1,590

Customer Id: MOTMCA
 Sample No.: EN24040836
 Lab Number: 24040836
 Test Package: TEST

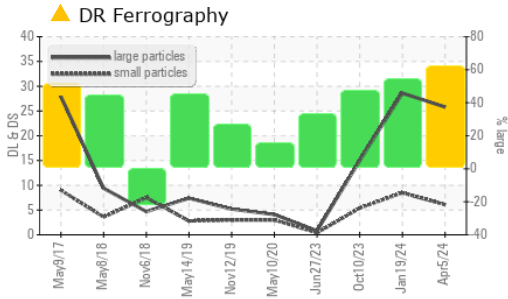


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OIL ANALYSIS REPORT



DR FERROGRAPHY READINGS

L		▲ 25.8	■ 28.6	■ 15.0
S		■ 6.1	■ 8.5	■ 5.4
WPC	DL + DS	▲ 31.9	■ 37.1	■ 20.4

Contamination

Water	>0.05	NEG	NEG	NEG
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