

LABORATORY ANALYSIS



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Department **REYLAM-PRESS**
 Equipment No. **MAN09 DEREELEER (LAM LINE 9) (00047)**
 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

All component wear rates are normal. There is a light amount of silt (particulates < 14 microns in size) present in the oil. The oil viscosity is lower than typical, possibly indicating the addition of lighter grade oil. The condition of the oil is acceptable for the time in service.

Sample Information

Lab Number	New	2404-00841	2401-00682	2310-00760
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		NORMAL	ABNORMAL	ABNORMAL

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

SSU Vis. @ 100F	SSU	314.1	314.8	350.6
cSt Vis. @ 40C	cSt	68.0	60.65	67.57

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	20/17/12	21/18/14	22/20/16
4 Micron & Larger	particles/ml	>5000	8,692	16,711	37,356
6 Micron & Larger	particles/ml	>2500	701	2,474	7,735
14 Micron & Larger	particles/ml	>160	21	114	427
21 Micron & Larger	particles/ml	>40	6	32	94
38 Micron & Larger	particles/ml	>10	0	3	6
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	91	81	63
Magnesium (Mg)	ppm	<5	<5	<5
Phosphorus(P)	ppm	521	469	503
Silicon (Si)	ppm	<5	<5	<5
Zinc (Zn)	ppm	668	617	561
Sulfur (S)	ppm		1,450	1,210
				1,540

Customer Id: MOTMCA
 Sample No.: EN24040841
 Lab Number: 24040841
 Test Package: TEST

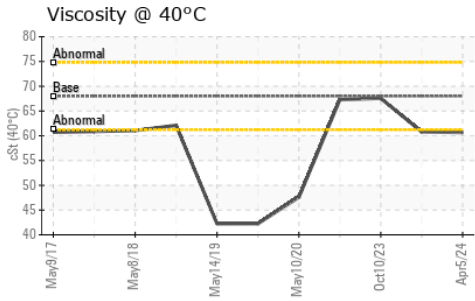


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OIL ANALYSIS REPORT



DR FERROGRAPHY READINGS

L		█ 13.8	█ 18.6	█ 11.2
S		█ 5.3	█ 5.5	█ 4.9
WPC	DL + DS	█ 19.1	█ 24.1	█ 16.1

Contamination

Water	>0.05	NEG	NEG	NEG
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