

LABORATORY ANALYSIS



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Department **REYLAM-PRESS**
 Equipment No. **PRESS13 PRESS #13 (LAM LINE 12) (00173)**
 System **Oil**
 Oil Type **ENGINEERED LUBRICANTS ENLUBE 71-EP (--- GAL)**

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

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. There is no indication of any contamination in the oil. The system and fluid cleanliness is acceptable. 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	2404-00913	2401-00739	2310-00837
Date of Sample	(Typical)	05 Apr 2024	19 Jan 2024	10 Oct 2023
Oil Added		UNK	UNK	UNK
Last Drain Date		--	--	--
Last Filter Service		--	--	--
Sample Point		---	---	---
Sample Status		ABNORMAL	ABNORMAL	NORMAL

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

SSU Vis. @ 100F	SSU	975.0	767.8	763.4
cSt Vis. @ 40C	cSt	150	146.3	145.4

PARTICLE COUNT (PER 1ML)

ISO CODE	ISO 4406(c)	>23/22/16	22/19/12	24/20/12	23/20/13
4 Micron & Larger	particles/ml	>80000	23,230	87,528	48,897
6 Micron & Larger	particles/ml	>40000	3,550	6,073	6,512
14 Micron & Larger	particles/ml	>640	27	33	45
21 Micron & Larger	particles/ml	>160	4	4	12
38 Micron & Larger	particles/ml	>40	1	0	1
70 Micron & Larger	particles/ml	>10	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	12	14	
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	7	12	8	
Magnesium (Mg)	ppm	<5	<5	<5	
Phosphorus(P)	ppm	234	205	256	287
Silicon (Si)	ppm	<5	<5	<5	
Zinc (Zn)	ppm	<5	6	10	
Sulfur (S)	ppm	3,540	3,430	3,010	

DR FERROGRAPHY READINGS

L		4.2	26.4	14.0
S		1.0	7.8	3.1
WPC	DL + DS	5.2	34.2	17.1

Customer Id: MOTMCA
 Sample No.: EN24040913
 Lab Number: 24040913
 Test Package: TEST

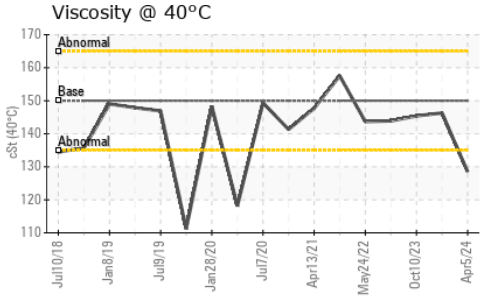


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OIL ANALYSIS REPORT



Contamination			
Water	NEG	NEG	NEG