

LABORATORY ANALYSIS



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Department **REYLAM-PRESS**
 Equipment No. **TENSC0101 TENSION REWIND #1(SCROLL) (00165)**
 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

All component wear rates are normal. 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 still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Sample Information

Lab Number	New	2404-00869	2401-00709	2310-00789
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		NORMAL	ABNORMAL	ABNORMAL

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

SSU Vis. @ 100F	SSU	314.3	313.9	349.9
cSt Vis. @ 40C	cSt	68.0	60.68	67.45

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	21/18/12	21/18/13	22/20/15
4 Micron & Larger	particles/ml	>5000	10,650	12,545	26,264
6 Micron & Larger	particles/ml	>2500	1,308	1,527	5,121
14 Micron & Larger	particles/ml	>160	38	65	290
21 Micron & Larger	particles/ml	>40	8	19	63
38 Micron & Larger	particles/ml	>10	0	1	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	92	93	60
Magnesium (Mg)	ppm	<5	<5	<5
Phosphorus(P)	ppm	529	517	488
Silicon (Si)	ppm	<5	<5	<5
Zinc (Zn)	ppm	668	617	580
Sulfur (S)	ppm	1,420	1,590	1,390

Customer Id: MOTMCA
 Sample No.: EN24040869
 Lab Number: 24040869
 Test Package: TEST

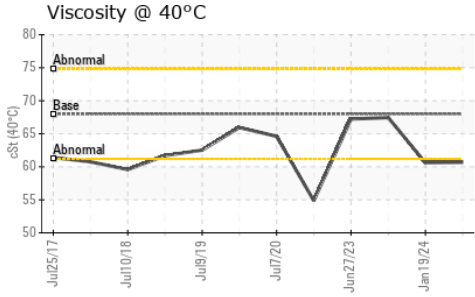


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OIL ANALYSIS REPORT



DR FERROGRAPHY READINGS

L		■ 11.2	■ 18.6	■ 9.5
S		■ 6.3	■ 4.8	■ 3.3
WPC	DL + DS	■ 17.5	■ 23.4	■ 12.8

Contamination

Water	>0.05	NEG	NEG	NEG
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