

LABORATORY ANALYSIS



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COPELAND (MHDS)
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Department **REYLAM-PRESS**
Equipment No. **STRSC02 LEVELER (SCROLL LINE 2) (00066)**
System **Hydraulic System**
Oil Type **ENGINEERED LUBRICANTS ENLUBE 15-AW (--- GAL)**

Diagnosis

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. 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 condition of the oil is acceptable for the time in service.

Sample Information

Lab Number	New	2404-00878	2401-00713	2310-00798
Date of Sample	(Typical)	05 Apr 2024	19 Jan 2024	10 Oct 2023
Oil Added		UNK	UNK	UNK
Last Drain Date		--	--	--
Months on Sample		270.5	268.0	264.8
Last Filter Service		--	--	--
Sample Point		---	---	---
Sample Status		NORMAL	NORMAL	NORMAL

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

SSU Vis. @ 100F	SSU	165.7	173.6	165.4
cSt Vis. @ 40C	cSt	32.0	33.58	31.97

COLOR (BASED ON ASTM D1500 STANDARDS)

Color	Scale 0-8	0.5	1.0	<0.5

PARTICLE COUNT (PER 1ML)

ISO CODE	ISO 4406(c)	>19/18/14	16/14/11	19/17/13	19/17/14
4 Micron & Larger	particles/ml	>5000	611	3,503	3,283
6 Micron & Larger	particles/ml	>2500	130	938	997
14 Micron & Larger	particles/ml	>160	12	58	88
21 Micron & Larger	particles/ml	>40	4	15	24
38 Micron & Larger	particles/ml	>10	0	1	1
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	61	91	62
Magnesium (Mg)	ppm	<5	<5	<5
Phosphorus(P)	ppm	504	498	492
Silicon (Si)	ppm	<5	<5	<5
Zinc (Zn)	ppm	668	599	590
Sulfur (S)	ppm	1,330	1,470	1,220

Customer Id: MOTMCA
Sample No.: EN24040878
Lab Number: 24040878
Test Package: TEST

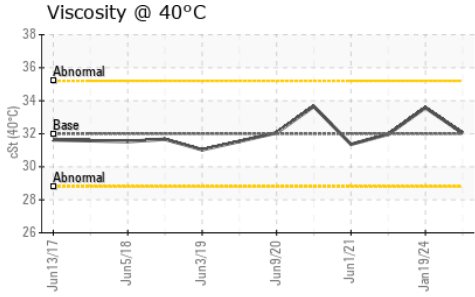


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OIL ANALYSIS REPORT



DR FERROGRAPHY READINGS

L		■ 1.4	■ 1.3	■ 2.4
S		■ 0.7	■ 0.1	■ 1.3
WPC	DL + DS	■ 2.1	■ 1.4	■ 3.7

Contamination

Water	>0.05	NEG	NEG	NEG
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