

LABORATORY ANALYSIS



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Department **REYLAM - TOOL ROOM**
 Equipment No. **GRINDTR05 HORIZONTAL GRINDER (00113)**
 System **Hydraulic System**
 Oil Type **ENGINEERED LUBRICANTS ENLUBE 15-AW (--- GAL)**

COPELAND (MHDS)
 6001 S. 35TH STREET, SUITE D"
 REYNOSA, ZZ
 US
 Contact: GERARDO GUERRERO
 francisco.castillo@Copeland.com
 T:
 F:

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	2404-00914	2401-00775	2310-00838
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	SEVERE	NORMAL

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

SSU Vis. @ 100F	SSU	165.9	163.2	165.5
cSt Vis. @ 40C	cSt	32.0	31.35	31.98

COLOR (BASED ON ASTM D1500 STANDARDS)

Color	Scale 0-8	0.5	0.5	<0.5

PARTICLE COUNT (PER 1ML)

ISO CODE	ISO 4406(c)	>19/18/14	18/16/12	21/19/14	18/17/13
4 Micron & Larger	particles/ml	>5000	2,174	13,835	2,475
6 Micron & Larger	particles/ml	>2500	534	3,486	726
14 Micron & Larger	particles/ml	>160	30	130	60
21 Micron & Larger	particles/ml	>40	6	20	15
38 Micron & Larger	particles/ml	>10	0	1	0
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	75	<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	249	<5
Boron (B)	ppm	<5	<5	<5
Calcium (Ca)	ppm	57	5	67
Magnesium (Mg)	ppm	<5	<5	<5
Phosphorus(P)	ppm	475	609	528
Silicon (Si)	ppm	<5	<5	<5
Zinc (Zn)	ppm	668	569	638
Sulfur (S)	ppm	1,290	2,250	1,530

Customer Id: MOTMCA
 Sample No.: EN24040914
 Lab Number: 24040914
 Test Package: TEST

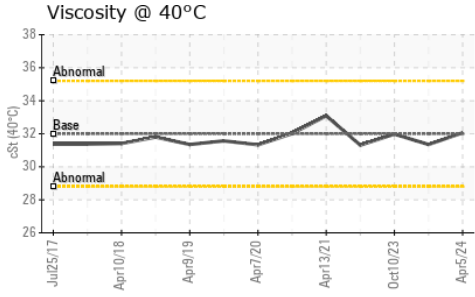


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OIL ANALYSIS REPORT



DR FERROGRAPHY READINGS

L		■ 9.4	■ 5.8	■ 3.5
S		■ 1.0	■ 0.9	■ 2.7
WPC	DL + DS	■ 10.4	■ 6.7	■ 6.2

Contamination

Water	>0.05	NEG	NEG	NEG
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