

LABORATORY ANALYSIS



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Department **REYLAM - TOOL ROOM**
Equipment No. **GRINDTR06 GRINDER (TOOL ROOM) (00147)**
System **Hydraulic System**
Oil Type **ENGINEERED LUBRICANTS ENWAY 15-HWO (--- GAL)**

Diagnosis

Confirm the source of the lubricant being utilized for top-up/fill. 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. Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

Sample Information

Lab Number	New	2404-00919	2401-00781	2310-00843
Date of Sample	(Typical)	05 Apr 2024	19 Jan 2024	10 Oct 2023
Oil Added		UNK	UNK	UNK
Last Drain Date		--	--	--
Months on Sample		146.3	143.8	140.6
Last Filter Service		--	--	--
Sample Point		---	---	---
Sample Status		ATTENTION	ABNORMAL	ABNORMAL

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

SSU Vis. @ 100F	SSU	144.0	163.6	163.0	165.5
cSt Vis. @ 40C	cSt		31.61	31.50	31.99

PARTICLE COUNT (PER 1ML)

ISO CODE	ISO 4406(c)	>25/23/17	21/18/14	20/18/14	21/20/16
4 Micron & Larger	particles/ml	>320000	10,702	9,038	15,944
6 Micron & Larger	particles/ml	>80000	2,387	1,738	6,549
14 Micron & Larger	particles/ml	>1300	107	86	635
21 Micron & Larger	particles/ml	>320	15	14	147
38 Micron & Larger	particles/ml	>80	0	1	3
70 Micron & Larger	particles/ml	>20	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	<5
Chromium (Cr)	ppm		<5	<5	<5
Cobalt (Co)	ppm		<5	<5	<5
Copper (Cu)	ppm		<5	<5	<5
Iron (Fe)	ppm		100	75	<5
Lead (Pb)	ppm		<5	<5	<5
Manganese (Mn)	ppm	5	<5	<5	<5
Molybdenum(Mo)	ppm	5	<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	270	252	<5
Boron (B)	ppm	5	<5	<5	<5
Calcium (Ca)	ppm	5	9	5	66
Magnesium (Mg)	ppm	5	<5	<5	<5
Phosphorus(P)	ppm	5	648	637	516
Silicon (Si)	ppm	5	<5	<5	<5
Zinc (Zn)	ppm	5	26	17	630
Sulfur (S)	ppm	9540	2,680	2,290	1,470

DR FERROGRAPHY READINGS

L			2.5	28.8	13.2
S			0.6	0.8	1.2
WPC	DL + DS		3.1	29.6	14.4

Customer Id: MOTMCA
Sample No.: EN24040919
Lab Number: 24040919
Test Package: TEST

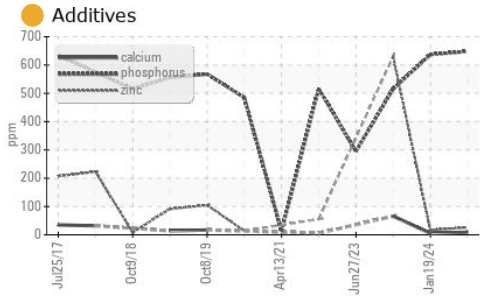


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OIL ANALYSIS REPORT



Contamination				
Water	>0.05	NEG	NEG	NEG

