

LABORATORY ANALYSIS



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Department **TOOL ROOM**
Equipment No. **1057 (00058)**
System **Hydraulic System**
Oil Type **ENGINEERED LUBRICANTS ENWAY 15-HWO (--- GAL)**

Diagnosis

All attributes are Green, continue use of oil at this time.L, % large particles, severity index and wpc levels are abnormal. 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 oil is no longer serviceable as a result of the abnormal and/or severe wear.

Sample Information

Lab Number	New	2404-00476	2305-00752	2211-00330
Date of Sample	(Typical)	05 Apr 2024	19 May 2023	17 Nov 2022
Oil Added		UNK	UNK	UNK
Last Drain Date		--	--	--
Last Filter Service		--	--	--
Sample Point		---	---	---
Sample Status		ABNORMAL	SEVERE	NORMAL

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

SSU Vis. @ 100F	SSU	144.0	160.9	159.3	159.1
cSt Vis. @ 40C	cSt		31.08	30.77	30.72

PARTICLE COUNT (PER 1ML)

ISO CODE	ISO 4406(c)	>25/23/17	22/19/13	24/22/18	23/20/15
4 Micron & Larger	particles/ml	>320000	27,322	94,573	41,029
6 Micron & Larger	particles/ml	>80000	2,888	30,252	6,964
14 Micron & Larger	particles/ml	>1300	76	1,561	177
21 Micron & Larger	particles/ml	>320	23	326	35
38 Micron & Larger	particles/ml	>80	3	19	2
70 Micron & Larger	particles/ml	>20	0	2	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		9	16	11
Iron (Fe)	ppm		11	18	17
Lead (Pb)	ppm		6	7	6
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	<5	<5	<5
Boron (B)	ppm	5	5	<5	7
Calcium (Ca)	ppm	5	12	7	11
Magnesium (Mg)	ppm	5	<5	<5	<5
Phosphorus(P)	ppm	5	473	465	500
Silicon (Si)	ppm	5	<5	<5	<5
Zinc (Zn)	ppm	5	464	405	503
Sulfur (S)	ppm	9540	1,700	1,670	1,680

DR FERROGRAPHY READINGS

L			49.7	68.2	12.0
S			8.1	7.5	3.5
WPC	DL + DS		57.8	75.7	15.5

Customer Id: BACSTL
Sample No.: EN24040476
Lab Number: 24040476
Test Package: TEST



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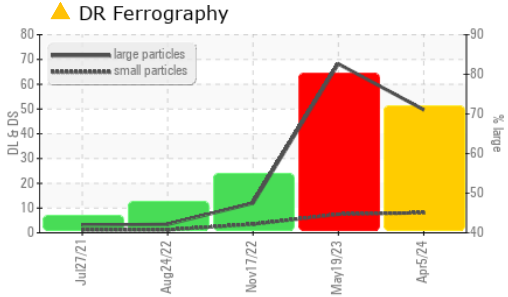
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OIL ANALYSIS REPORT



Contamination

Water	>0.05	NEG	NEG
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