

LABORATORY ANALYSIS



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Department **PRESS ROOM**
 Equipment No. **PP-20 PRESS (00013)**
 System **Gear Lube System**
 Oil Type **ENGINEERED LUBRICANTS ENWAY 95-WO (50 GAL)**

MODINEER PLANT 7
 #17 CERMAK BLVD., MODINEER PLANT #7
 ST. PETERS, MO
 US 63376
 Contact: Kaleb Shocklee
 kshocklee@modineer.com
 T:
 F:

Diagnosis

We recommend that you drain the oil from the component if this has not already been done. We recommend you service the filters on this component. We recommend an early resample to monitor this condition. L, % large particles, severity index and wpc levels are severe. There is a light amount of silt (particulates < 14 microns in size) present in the oil. The oil viscosity is lower than typical, possibly indicating the addition of lighter grade oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Sample Information

Lab Number	New	2405-00955	2402-00232	2311-00700
Date of Sample	(Typical)	29 May 2024	07 Feb 2024	28 Nov 2023
Oil Added		UNK	UNK	UNK
Last Drain Date		--	--	--
Months on Sample		109.7	106.1	103.8
Last Filter Service		--	--	--
Sample Point		---	---	---
Sample Status		SEVERE	SEVERE	SEVERE

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

SSU Vis. @ 100F	SSU	1,036.9	1,042.9	1,043.8
cSt Vis. @ 40C	cSt	220	▲ 197.6	▲ 197.8

PARTICLE COUNT (PER 1ML)

ISO CODE	ISO 4406(c)	>25/23/19	25/24/20	24/24/20	26/25/21
4 Micron & Larger	particles/ml	>320000	■ 260,647	■ 159,088	● 473,303
6 Micron & Larger	particles/ml	>80000	● 136,401	● 85,155	▲ 224,384
14 Micron & Larger	particles/ml	>5000	● 8,274	● 8,503	▲ 18,929
21 Micron & Larger	particles/ml	>1300	1,611	1,775	▲ 4,337
38 Micron & Larger	particles/ml	>320	■ 40	■ 70	■ 202
70 Micron & Larger	particles/ml	>80	■ 1	■ 4	■ 8

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	■ 13	■ 12	■ 14
Iron (Fe)	ppm	■ 10	■ 9	■ 9
Lead (Pb)	ppm	■ 9	■ 9	■ 10
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	<5	<5	<5
Magnesium (Mg)	ppm	<5	<5	<5
Phosphorus(P)	ppm	<5	17	18
Silicon (Si)	ppm	<5	■ <5	■ <5
Zinc (Zn)	ppm	<5	<5	<5
Sulfur (S)	ppm	12900	■ 9,890	■ 11,100

DR FERROGRAPHY READINGS

L		▲ 301.0	▲ 425.0	▲ 696.0
S		■ 57.0	■ 57.0	▲ 104.0
WPC	DL + DS	▲ 358	▲ 482	▲ 800

Customer Id: WAISTP
 Sample No.: EN24050955
 Lab Number: 24050955
 Test Package: TEST



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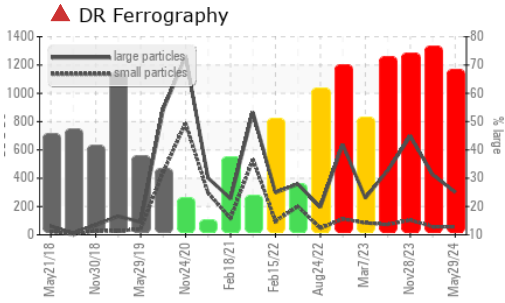
To discuss the diagnosis or test data:

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OIL ANALYSIS REPORT



Contamination

Water	>0.1	NEG	NEG
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