

LABORATORY ANALYSIS



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MOMENTIVE TECHNOLOGIES
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STRONGSVILLE, OH
United States 44149
Contact: Service Manager

Equipment No. **HYDRAMET PRE-PRESS (00009)**
System **Hydraulic System**
Oil Type **ENGINEERED LUBRICANTS ENLUBE 30-AW (172 GAL)**

T:
F:

DIAGNOSIS

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The system cleanliness is above the acceptable limit for the target ISO 4406 cleanliness code. Zinc (Zn) ppm levels are abnormally low.

SAMPLE INFORMATION

Lab Number	New	2311-00059	2302-00301	2206-00094
Date of Sample	(Typical)	30 Oct 2023	18 Jan 2023	03 Jun 2022
Oil Added		UNK	UNK	UNK
Last Drain Date		--	--	--
Last Filter Service		--	--	--
Sample Point		---	---	---
Sample Status		ABNORMAL	ABNORMAL	SEVERE

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

SSU Vis. @ 100F	SSU	345.8	345.6	344.4
cSt Vis. @ 40C	cSt	68.0	66.63	66.40

PARTICLE COUNT (PER 1ML)

ISO CODE	ISO 4406(c)	>19/18/14	21/18/14	21/18/14	21/17/13
4 Micron & Larger	particles/ml	>5000	▲ 11,942	▲ 12,768	▲ 13,298
6 Micron & Larger	particles/ml	>2500	■ 1,345	■ 1,463	■ 923
14 Micron & Larger	particles/ml	>160	■ 109	■ 136	■ 55
21 Micron & Larger	particles/ml	>40	■ 24	■ 37	■ 20
38 Micron & Larger	particles/ml	>10	■ 0	■ 4	■ 2
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	■ 25	■ 25	■ 21
Iron (Fe)	ppm	■ <5	■ <5	■ <5
Lead (Pb)	ppm	15	9	8
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	37	39	33
Magnesium (Mg)	ppm	<5	<5	<5
Phosphorus(P)	ppm	351	335	304
Silicon (Si)	ppm	<5	<5	<5
Zinc (Zn)	ppm	668	▲ 397	▲ 407
Sulfur (S)	ppm	5,650	5,410	5,590

DR FERROGRAPHY READINGS

L		■ 7.3	■ 9.5	● 46.2
S		■ 2.7	■ 2.7	● 31.9
WPC	DL + DS	■ 10	■ 12.2	● 78.1

Customer Id: ENC0121S01
Sample No.: EN23110059
Lab Number: 23110059
Test Package: TEST

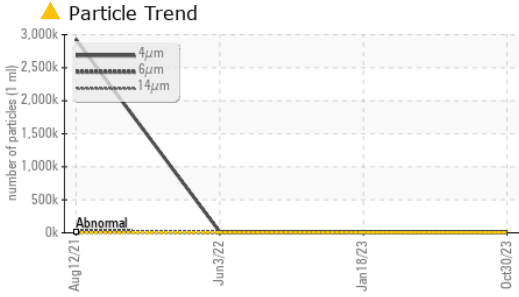


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OIL ANALYSIS REPORT



CONTAMINATION				
Water	>0.05	NEG	NEG	NEG

