

LABORATORY ANALYSIS



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MOMENTIVE TECHNOLOGIES
22557 LUNN RD
STRONGSVILLE, OH
United States 44149
Contact: Service Manager

Equipment No. **PRESS OUT STATION (00004)**
System **Hydraulic System**
Oil Type **ECOSAFE FR-46 (12 GAL)**

T:
F:

DIAGNOSIS

Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. Resample in 30-45 days to monitor this situation. All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

SAMPLE INFORMATION

Lab Number	New	2311-00058	2302-00300	2206-00093
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		SEVERE	SEVERE	SEVERE

VISCOSITY INDEX (ASTM D445)

cSt Vis. @ 40C	cSt	46	50.62	50.14	50.11
SSU Vis. @ 100F	SSU		235.5	233.3	233.1
cSt Vis. @ 100C	cSt		9.26	9.24	9.26
SSU Vis. @ 210F	SSU		56.66	56.6	56.7
cSt Vis. @ 40C	cSt	46	50.62	50.14	50.11
SSU Vis. @ 40C	SSU		235.5	233.3	233.1
cSt Vis. @ 100C	cSt		9.26	9.24	9.26
SSU Vis. @ 100C	SSU		56.66	56.6	56.7
Viscosity Index		185	168	169	170

PARTICLE COUNT (PER 1ML)

ISO CODE	ISO 4406(c)	>19/17/14	24/20/13	24/21/16	24/21/14
4 Micron & Larger	particles/ml	>5000	118,204	94,524	92,634
6 Micron & Larger	particles/ml	>1300	8,455	14,190	14,117
14 Micron & Larger	particles/ml	>160	65	405	101
21 Micron & Larger	particles/ml	>40	18	118	15
38 Micron & Larger	particles/ml	>10	2	14	3
70 Micron & Larger	particles/ml	>3	0	3	1

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	<5	<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	<5	<5
Boron (B)	ppm	21	14	14
Calcium (Ca)	ppm	<5	<5	<5
Magnesium (Mg)	ppm	<5	<5	<5
Phosphorus(P)	ppm	705	608	625
Silicon (Si)	ppm	<5	<5	<5
Zinc (Zn)	ppm	<5	<5	<5
Sulfur (S)	ppm	2,800	2,170	2,720

Customer Id: ENC0121S01
Sample No.: EN23110058
Lab Number: 23110058
Test Package: TEST

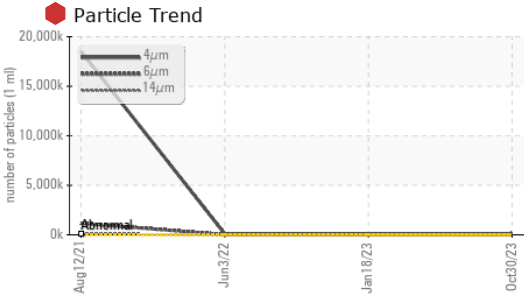


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OIL ANALYSIS REPORT



CONTAMINATION				
Water	>0.05	NEG	NEG	NEG