

LABORATORY ANALYSIS



11525 Rock Island Court, St. Louis, MO 63043
Tel: 1-800-876-0008 info@englube.com

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

Equipment No. **HOT PRESS #1 (00001)**
System **Hydraulic System**
Oil Type **ECOSAFE FR-46 (50 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 particulates (2 to 100 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	2311-00057	2302-00299	2206-00092
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	ATTENTION

VISCOSITY INDEX (ASTM D445)

cSt Vis. @ 40C	cSt	46	51.35	50.76	50.66
SSU Vis. @ 100F	SSU		238.8	236.1	235.6
cSt Vis. @ 100C	cSt		9.41	9.40	9.40
SSU Vis. @ 210F	SSU		57.18	57.2	57.1
cSt Vis. @ 40C	cSt	46	51.35	50.76	50.66
SSU Vis. @ 40C	SSU		238.8	236.1	235.6
cSt Vis. @ 100C	cSt		9.41	9.40	9.40
SSU Vis. @ 100C	SSU		57.18	57.2	57.1
Viscosity Index		185	169	171	171

PARTICLE COUNT (PER 1ML)

ISO CODE	ISO 4406(c)	>19/17/14	22/20/17	21/19/15	20/17/12
4 Micron & Larger	particles/ml	>5000	▲ 20,652	▲ 16,350	▲ 5,705
6 Micron & Larger	particles/ml	>1300	▲ 6,336	▲ 3,706	■ 895
14 Micron & Larger	particles/ml	>160	▲ 754	▲ 319	■ 33
21 Micron & Larger	particles/ml	>40	▲ 213	▲ 100	■ 9
38 Micron & Larger	particles/ml	>10	▲ 12	■ 10	■ 0
70 Micron & Larger	particles/ml	>3	■ 0	3	■ 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	■ <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	■ 15	■ 5	■ 5
Calcium (Ca)	ppm	■ <5	■ <5	■ <5
Magnesium (Mg)	ppm	■ <5	■ <5	■ <5
Phosphorus(P)	ppm	■ 652	■ 629	■ 541
Silicon (Si)	ppm	■ <5	■ <5	■ <5
Zinc (Zn)	ppm	■ <5	■ <5	■ <5
Sulfur (S)	ppm	■ 2,580	■ 2,300	■ 2,250

Customer Id: ENC0121S01
Sample No.: EN23110057
Lab Number: 23110057
Test Package: TEST



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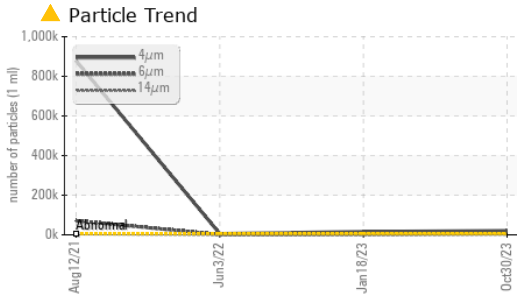
To discuss the diagnosis or test data:

Brad Fritz +1 (314)872-9540
bfritz@englube.com

To change component or sample information:

Tracy Weaks +1 (314)872-9540
tweaks@englube.com

OIL ANALYSIS REPORT



CONTAMINATION				
Water	>0.05	NEG	NEG	NEG