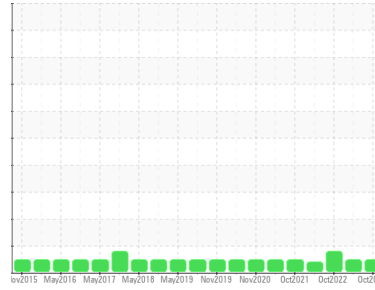




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**ACRYLIC**  
 Machine Id  
**PMX J - AGITATOR**  
 Component  
**Gearbox**  
 Fluid  
**SHELL OMALA S2 G 220 (19 GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>WC0866282</b>	WC0802660	WC0748721
Sample Date	Client Info	<b>07 Oct 2023</b>	18 Apr 2023	26 Oct 2022
Machine Age	hrs Client Info	<b>0</b>	0	0
Oil Age	hrs Client Info	<b>0</b>	0	23830
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>NORMAL</b>	NORMAL	ATTENTION

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >200	<b>2</b>	2	2
Chromium	ppm ASTM D5185m >15	<b>&lt;1</b>	0	0
Nickel	ppm ASTM D5185m >15	<b>0</b>	0	0
Titanium	ppm ASTM D5185m	<b>0</b>	0	0
Silver	ppm ASTM D5185m	<b>0</b>	0	0
Aluminum	ppm ASTM D5185m >25	<b>2</b>	0	<1
Lead	ppm ASTM D5185m >100	<b>0</b>	0	0
Copper	ppm ASTM D5185m >200	<b>&lt;1</b>	0	0
Tin	ppm ASTM D5185m >25	<b>0</b>	0	0
Vanadium	ppm ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 4.4	<b>0</b>	0	0
Barium	ppm ASTM D5185m 0.0	<b>0</b>	0	0
Molybdenum	ppm ASTM D5185m 0	<b>0</b>	<1	<1
Manganese	ppm ASTM D5185m	<b>0</b>	0	<1
Magnesium	ppm ASTM D5185m 0	<b>1</b>	<1	0
Calcium	ppm ASTM D5185m 0	<b>11</b>	10	11
Phosphorus	ppm ASTM D5185m 215	<b>265</b>	227	219
Zinc	ppm ASTM D5185m 0	<b>4</b>	8	6
Sulfur	ppm ASTM D5185m 7039	<b>9877</b>	7414	8703

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >50	<b>6</b>	6	4
Sodium	ppm ASTM D5185m	<b>0</b>	0	<1
Potassium	ppm ASTM D5185m >20	<b>1</b>	<1	0

## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >20000	<b>14367</b>	16940	▲ 30528
Particles >6µm	ASTM D7647 >5000	<b>2319</b>	1240	1907
Particles >14µm	ASTM D7647 >640	<b>141</b>	34	103
Particles >21µm	ASTM D7647 >160	<b>27</b>	4	22
Particles >38µm	ASTM D7647 >40	<b>1</b>	0	0
Particles >71µm	ASTM D7647 >10	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c) >21/19/16	<b>21/18/14</b>	21/17/12	▲ 22/18/14

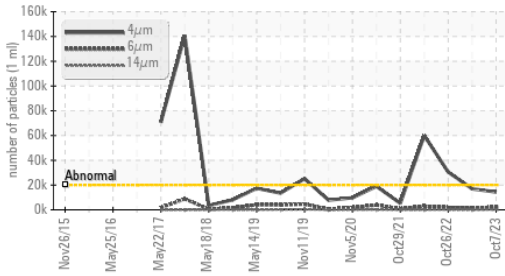
## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D8045	<b>0.45</b>	0.44	0.41

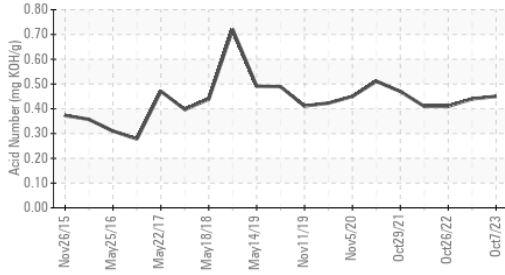


# OIL ANALYSIS REPORT

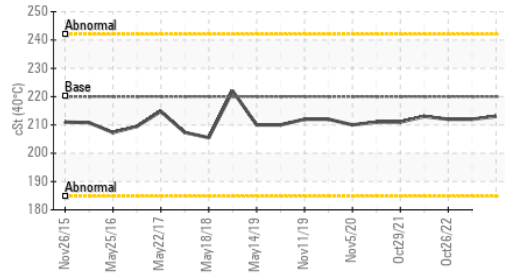
Particle Trend



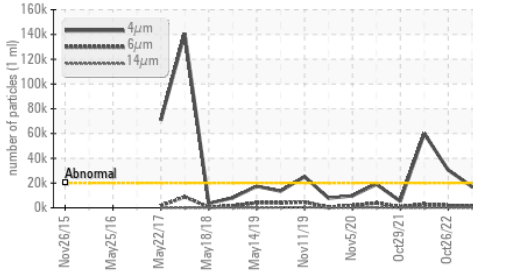
Acid Number



Viscosity @ 40°C



Particle Trend



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

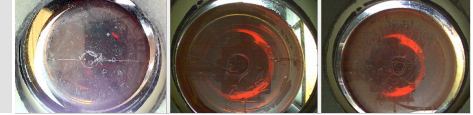
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 220	213	212	212

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color

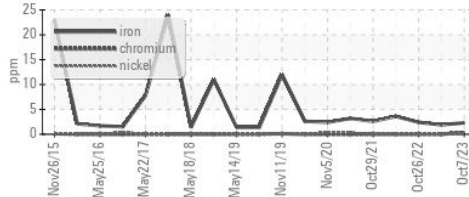


Bottom

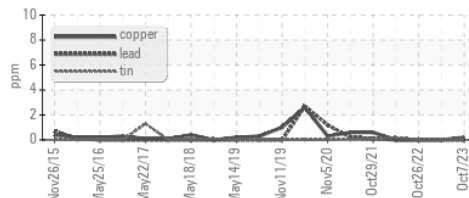


## GRAPHS

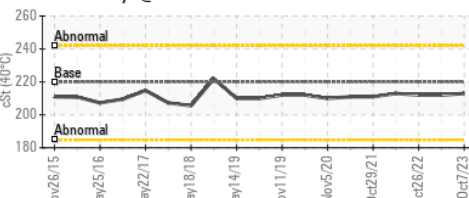
Ferrous Alloys



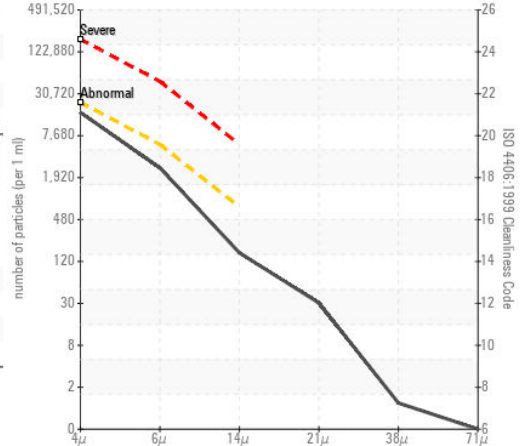
Non-ferrous Metals



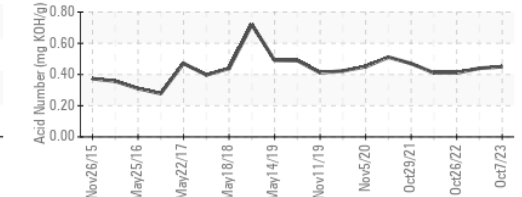
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
 Sample No. : WC0866282 Received : 08 Nov 2023  
 Lab Number : 06001581 Diagnosed : 10 Nov 2023  
 Unique Number : 10729941 Diagnostician : Jonathan Hester  
 Test Package : IND 2 ( Additional Tests: PrtCount )

**LUBRIZOL ADVANCED MATERIALS INC**  
 207 TELEGRAPH DR  
 GASTONIA, NC  
 US 28056  
 Contact: TIMOTHY DAVIS  
 timothy.davis@lubrizol.com  
 T: (704)915-4131  
 F: x:

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)