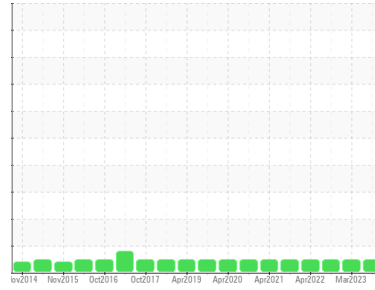




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
ACRYLIC
 Machine Id
STG TK 2 - AGITATOR
 Component
Gearbox
 Fluid
SHELL OMALA S2 G 220 (9 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		WC0813292	WC0802656	WC0741895
Sample Date	Client Info		28 Sep 2023	30 Mar 2023	27 Sep 2022
Machine Age	hrs	Client Info	0	0	0
Oil Age	hrs	Client Info	0	0	0
Oil Changed	Client Info		N/A	N/A	N/A
Sample Status			NORMAL	NORMAL	NORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	2	2
Chromium	ppm	ASTM D5185m	>15	0	0
Nickel	ppm	ASTM D5185m	>15	0	0
Titanium	ppm	ASTM D5185m		0	0
Silver	ppm	ASTM D5185m		0	0
Aluminum	ppm	ASTM D5185m	>25	<1	0
Lead	ppm	ASTM D5185m	>100	0	7
Copper	ppm	ASTM D5185m	>200	<1	0
Tin	ppm	ASTM D5185m	>25	0	0
Vanadium	ppm	ASTM D5185m		0	0
Cadmium	ppm	ASTM D5185m		0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	4.4	0	0
Barium	ppm	ASTM D5185m	0.0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	<1
Manganese	ppm	ASTM D5185m		0	<1
Magnesium	ppm	ASTM D5185m	0	2	0
Calcium	ppm	ASTM D5185m	0	16	20
Phosphorus	ppm	ASTM D5185m	215	292	311
Zinc	ppm	ASTM D5185m	0	4	0
Sulfur	ppm	ASTM D5185m	7039	8909	11320

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	<1	1
Sodium	ppm	ASTM D5185m		2	1
Potassium	ppm	ASTM D5185m	>20	0	2

FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	4510	6632	3662
Particles >6µm	ASTM D7647	>5000	897	1418	473
Particles >14µm	ASTM D7647	>640	55	79	33
Particles >21µm	ASTM D7647	>160	13	13	8
Particles >38µm	ASTM D7647	>40	0	1	1
Particles >71µm	ASTM D7647	>10	0	0	0
Oil Cleanliness	ISO 4406 (c)	>21/19/16	19/17/13	20/18/13	19/16/12

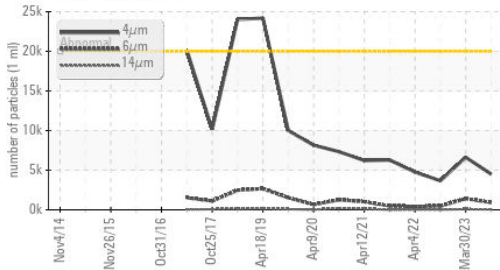
FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.38	0.38

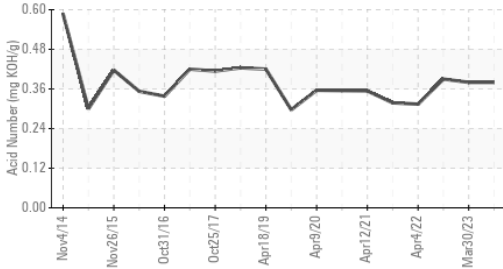


OIL ANALYSIS REPORT

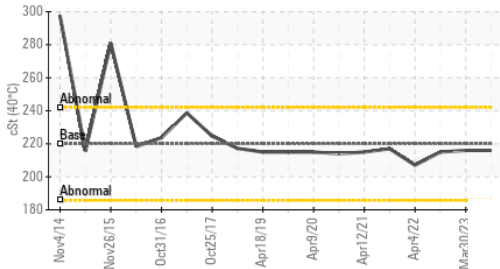
Particle Trend



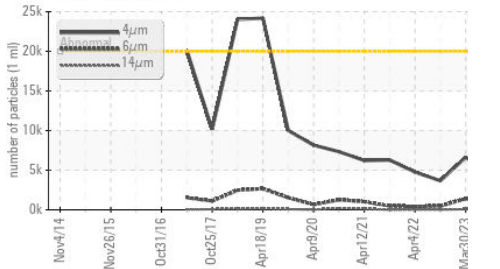
Acid Number



Viscosity @ 40°C



Particle Trend

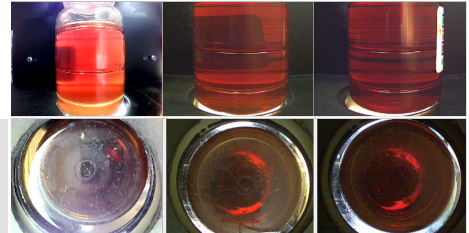


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	216	216	215

SAMPLE IMAGES	method	limit/base	current	history1	history2
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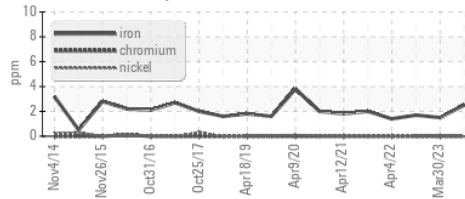
Color



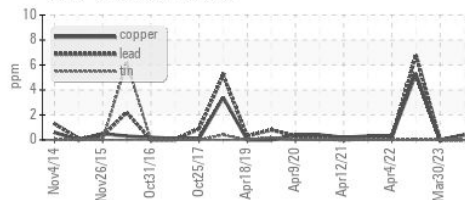
Bottom

GRAPHS

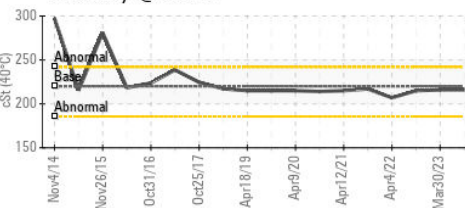
Ferrous Alloys



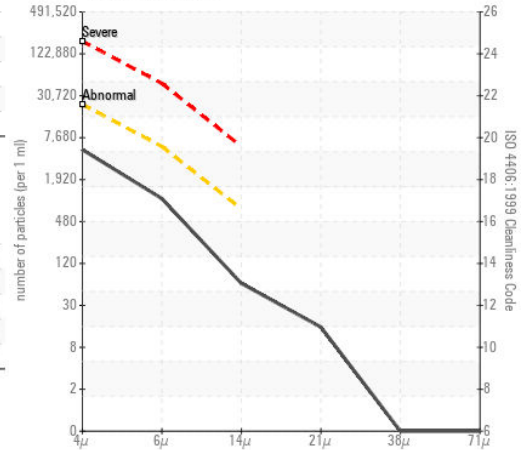
Non-ferrous Metals



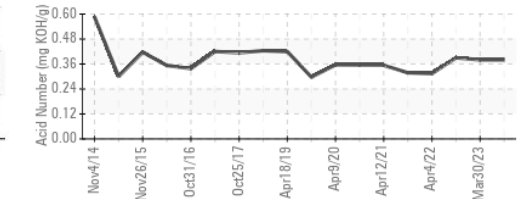
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : WC0813292
 Lab Number : 05965333
 Unique Number : 10671884
 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)