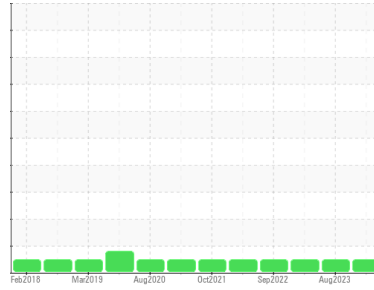




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**CO 100A (S/N 11551H76619729)**

Component  
**Refrigeration Compressor**

Fluid  
**FRICK COMPRESSOR OIL #3 (--- 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>WC0903048</b>	WC0847572	WC0789729
Sample Date	Client Info	<b>01 Feb 2024</b>	19 Aug 2023	25 Feb 2023
Machine Age	hrs Client Info	<b>0</b>	0	0
Oil Age	hrs Client Info	<b>0</b>	0	0
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL

## WEAR METALS

method	limit/base	current	history1	history2
Iron ppm	ASTM D5185m >8	<b>6</b>	16	12
Chromium ppm	ASTM D5185m >2	<b>0</b>	0	0
Nickel ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Titanium ppm	ASTM D5185m	<b>0</b>	0	0
Silver ppm	ASTM D5185m >2	<b>0</b>	0	0
Aluminum ppm	ASTM D5185m >3	<b>&lt;1</b>	0	0
Lead ppm	ASTM D5185m >2	<b>0</b>	0	0
Copper ppm	ASTM D5185m >8	<b>0</b>	0	0
Tin ppm	ASTM D5185m >4	<b>&lt;1</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	<b>0</b>	0	0
Barium ppm	ASTM D5185m	<b>&lt;1</b>	2	<1
Molybdenum ppm	ASTM D5185m	<b>0</b>	0	0
Manganese ppm	ASTM D5185m	<b>&lt;1</b>	0	<1
Magnesium ppm	ASTM D5185m	<b>&lt;1</b>	<1	0
Calcium ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Phosphorus ppm	ASTM D5185m	<b>0</b>	1	0
Zinc ppm	ASTM D5185m	<b>0</b>	<1	1
Sulfur ppm	ASTM D5185m	<b>54</b>	28	66

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm	ASTM D5185m >15	<b>&lt;1</b>	<1	<1
Sodium ppm	ASTM D5185m	<b>&lt;1</b>	0	<1
Potassium ppm	ASTM D5185m >20	<b>&lt;1</b>	<1	0
Water %	ASTM D6304 >0.01	<b>0.005</b>	0.002	0.004
ppm Water ppm	ASTM D6304 >100	<b>56</b>	24.5	41.7

## FLUID CLEANLINESS

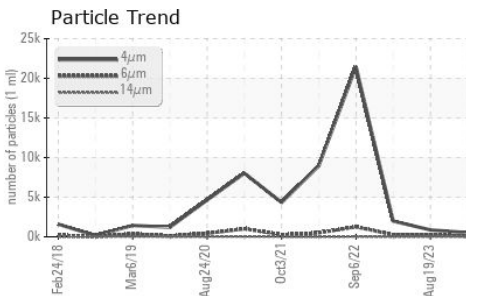
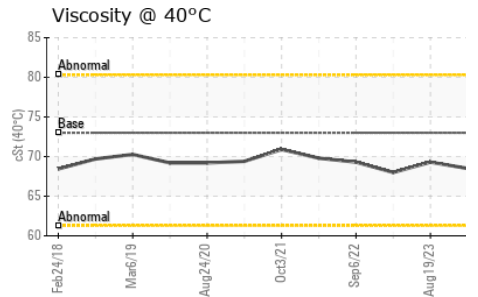
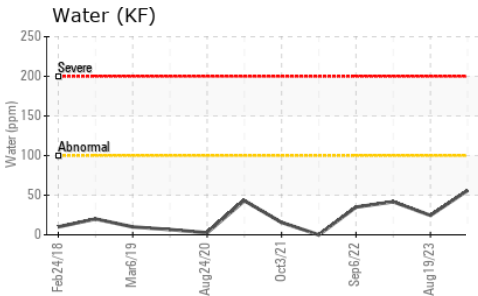
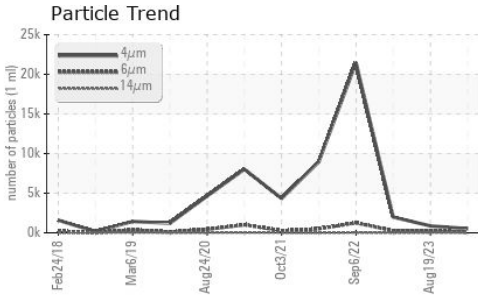
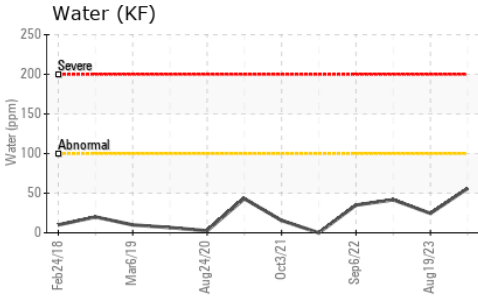
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	<b>521</b>	871	1983
Particles >6µm	ASTM D7647 >2500	<b>104</b>	216	254
Particles >14µm	ASTM D7647 >320	<b>3</b>	15	0
Particles >21µm	ASTM D7647 >80	<b>0</b>	5	0
Particles >38µm	ASTM D7647 >20	<b>0</b>	0	0
Particles >71µm	ASTM D7647 >4	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c) >--/18/15	<b>16/14/9</b>	17/15/11	18/15/7

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g	ASTM D974	<b>0.015</b>	0.013	0.015



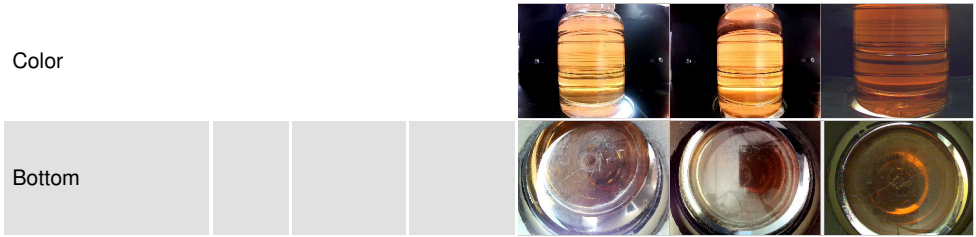
# OIL ANALYSIS REPORT



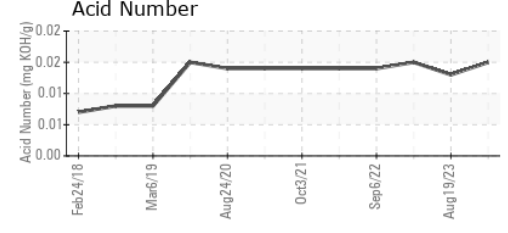
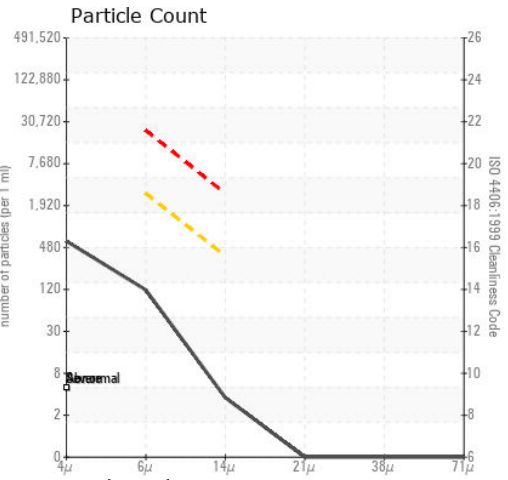
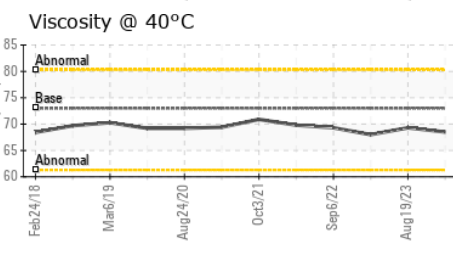
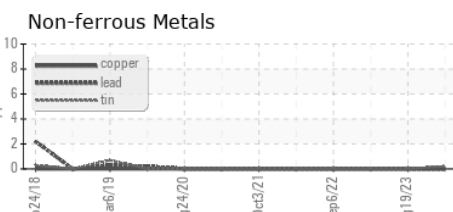
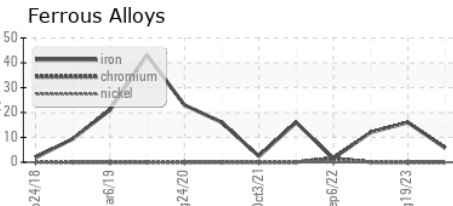
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.01	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 73	68.5	69.3	68.0

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0903048 **Received** : 23 Feb 2024  
**Lab Number** : 06098494 **Tested** : 26 Feb 2024  
**Unique Number** : 10896724 **Diagnosed** : 26 Feb 2024 - Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: PrtCount )

**BRAUM'S ICE CREAM PLANT**  
 PO BOX 725  
 TUTTLE, OK  
 US 73089  
 Contact: SCOTTY SCOTT  
 sscott@braums.com; maintenanceoffice@braums.com  
 T: (405)381-4427  
 F: (405)381-2051

Certificate L2367  
 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)