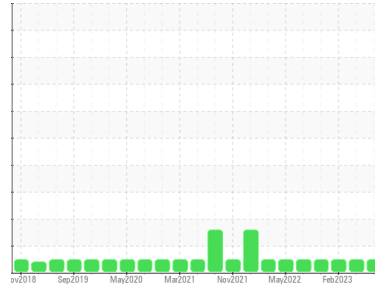




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**MS-103**  
 Machine Id  
**B38979 - AIR COMPRESSOR #8 200 HP SCREW INGERSOLL-RAND SSR-EPE200-2S (S/N FF1681U99064)**  
 Component  
**Compressor**  
 Fluid  
**INGERSOLL-RAND SSR ULTRA COOLANT (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

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

### 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>WC0826174</b>	WC0814177	WC0765457
Sample Date	Client Info		<b>20 Aug 2023</b>	06 Jun 2023	19 Feb 2023
Machine Age	hrs	Client Info	<b>126156</b>	124500	122572
Oil Age	hrs	Client Info	<b>2514</b>	0	10693
Oil Changed	Client Info		<b>Changed</b>	N/A	Not Changd
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<b>&lt;1</b>	<1	2
Chromium	ppm	ASTM D5185m >10	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185m	<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>0</b>	0	<1
Lead	ppm	ASTM D5185m >25	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185m >50	<b>&lt;1</b>	<1	1
Tin	ppm	ASTM D5185m >15	<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 0	<b>0</b>	0	5
Barium	ppm	ASTM D5185m 500	<b>835</b>	881	852
Molybdenum	ppm	ASTM D5185m 0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m	<b>0</b>	0	0
Magnesium	ppm	ASTM D5185m 0	<b>&lt;1</b>	<1	0
Calcium	ppm	ASTM D5185m 0	<b>7</b>	4	7
Phosphorus	ppm	ASTM D5185m 20	<b>4</b>	0	7
Zinc	ppm	ASTM D5185m 0	<b>6</b>	6	11
Sulfur	ppm	ASTM D5185m 200	<b>364</b>	354	410

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>1</b>	<1	2
Sodium	ppm	ASTM D5185m	<b>19</b>	25	70
Potassium	ppm	ASTM D5185m >20	<b>3</b>	3	4

## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	<b>1001</b>	517	333
Particles >6µm	ASTM D7647	>2500	<b>240</b>	170	141
Particles >14µm	ASTM D7647	>320	<b>59</b>	29	37
Particles >21µm	ASTM D7647	>80	<b>22</b>	11	17
Particles >38µm	ASTM D7647	>20	<b>1</b>	0	7
Particles >71µm	ASTM D7647	>4	<b>0</b>	0	2
Oil Cleanliness	ISO 4406 (c)	>20/18/15	<b>17/15/13</b>	16/15/12	16/14/12

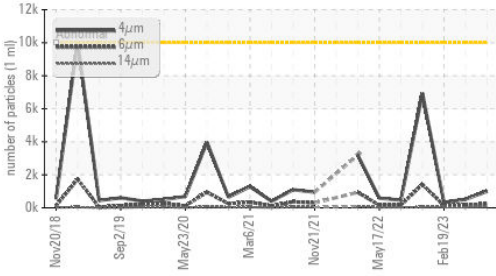
## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>0.23</b>	0.23	0.45

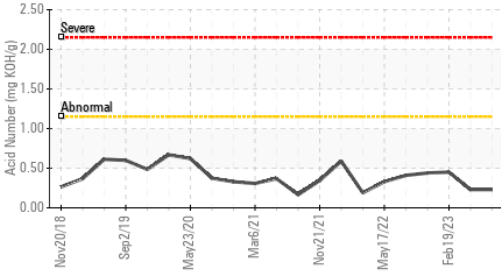


# OIL ANALYSIS REPORT

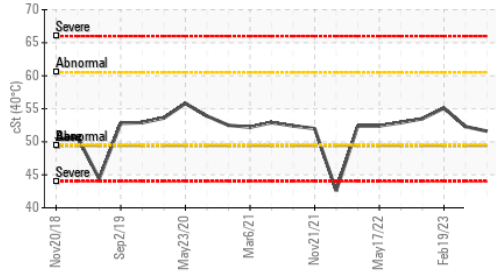
Particle Trend



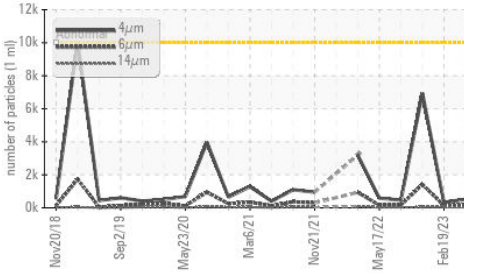
Acid Number



Viscosity @ 40°C



Particle Trend

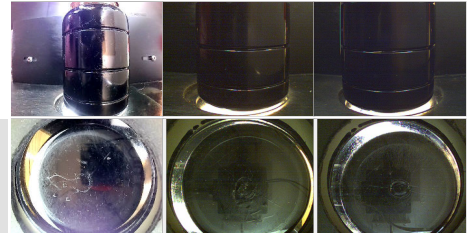


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	49.4	51.6	52.3

SAMPLE IMAGES	method	limit/base	current	history1	history2
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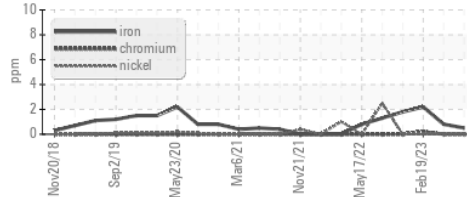
Color



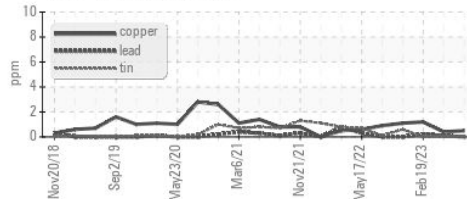
Bottom

## GRAPHS

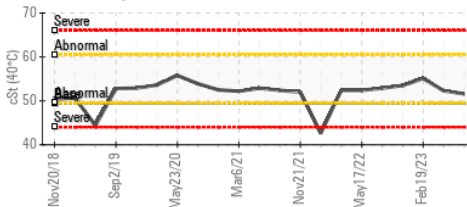
Ferrous Alloys



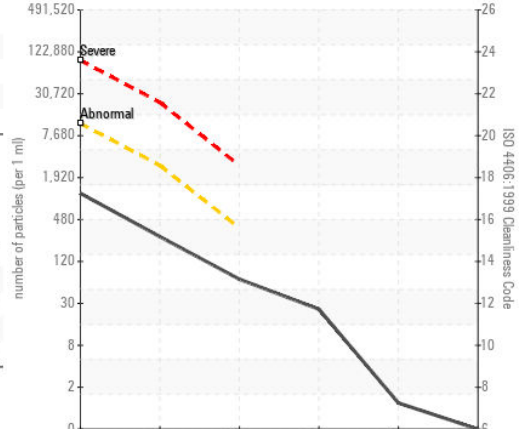
Non-ferrous Metals



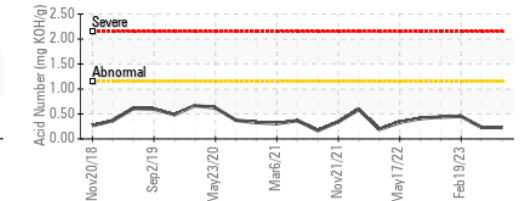
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
 Sample No. : WC0826174  
 Lab Number : 05934871  
 Unique Number : 10620142  
 Test Package : IND 2 ( Additional Tests: PrtCount )

Received : 25 Aug 2023  
 Diagnosed : 29 Aug 2023  
 Diagnostician : Don Baldrige

**HORMEL FOODS - AUSTIN**  
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 T: (507)437-5674  
 F: (507)437-9805

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)