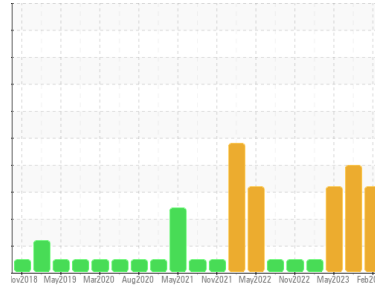




# PROBLEM SUMMARY

Sample Rating Trend



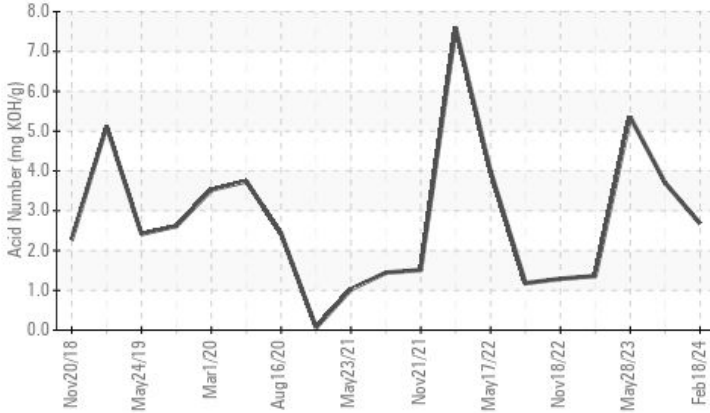
DEGRADATION



Area  
**MS-103**  
 Machine Id  
**B60798 - AIR COMPRESSOR INGERSOLL RAND 250HP 480VAC 1249 CFM #5 (S/N SSR2TS \* 28496590)**  
 Component  
**Compressor**  
 Fluid  
**INGERSOLL-RAND ULTRA EL (--- GAL)**

## COMPONENT CONDITION SUMMARY

Acid Number



## RECOMMENDATION

We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition.

## PROBLEMATIC TEST RESULTS

Sample Status		SEVERE	SEVERE	SEVERE
Acid Number (AN)	mg KOH/g ASTM D8045	2.68	3.70	5.352

Customer Id: HORAUS  
 Sample No.: WC0894911  
 Lab Number: 06097664  
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Don Baldrige +1  
[don.b505@comcast.net](mailto:don.b505@comcast.net)

To change component or sample information:  
 Customer Service +1 1-800-237-1369  
[customerservice@wearcheck.com](mailto:customerservice@wearcheck.com)

## RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Fluid	---	---	?	We recommend that you drain the oil and perform a filter service on this component if not already done.
Change Filter	---	---	?	We recommend that you drain the oil and perform a filter service on this component if not already done.
Resample	---	---	?	We recommend an early resample to monitor this condition.

## HISTORICAL DIAGNOSIS

### 20 Aug 2023 Diag: Don Baldrige

#### DEGRADATION



Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample. All component wear rates are normal. There is a moderate amount of visible silt present in the sample. The AN level is above the recommended limit. The oil is no longer serviceable.

view report



### 28 May 2023 Diag: Doug Bogart

#### DEGRADATION



We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition. All component wear rates are normal. The amount and size of particulates present in the system are acceptable. The AN level is above the recommended limit. The oil is no longer serviceable.

view report



### 19 Feb 2023 Diag: Don Baldrige

#### NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

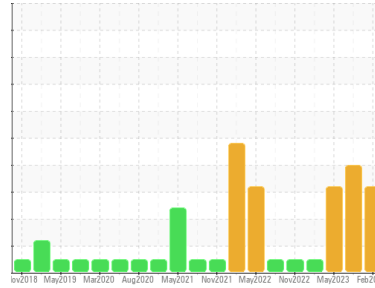
view report





# OIL ANALYSIS REPORT

Sample Rating Trend



DEGRADATION



Area  
**MS-103**  
 Machine Id  
**B60798 - AIR COMPRESSOR INGERSOLL RAND 250HP 480VAC 1249 CFM #5 (S/N SSR2TS \* 28496590)**  
 Component  
**Compressor**  
 Fluid  
**INGERSOLL-RAND ULTRA EL (--- GAL)**

## DIAGNOSIS

### Recommendation

We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition.

### Wear

All component wear rates are normal.

### Contamination

The amount and size of particulates present in the system are acceptable.

### Fluid Condition

The AN level is above the recommended limit. The oil is no longer serviceable.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0894911</b>	WC0826190	WC0814184
Sample Date	Client Info		<b>18 Feb 2024</b>	20 Aug 2023	28 May 2023
Machine Age	hrs	Client Info	<b>65386</b>	61253	59383
Oil Age	hrs	Client Info	<b>14346</b>	10213	0
Oil Changed	Client Info		<b>N/A</b>	Changed	N/A
Sample Status			<b>SEVERE</b>	SEVERE	SEVERE

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.1	<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>50	<b>&lt;1</b>	<1	0
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
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	0
Lead	ppm	ASTM D5185m	>25	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>50	<b>4</b>	4	3
Tin	ppm	ASTM D5185m	>15	<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>&lt;1</b>	3	0
Barium	ppm	ASTM D5185m		<b>60</b>	10	8
Molybdenum	ppm	ASTM D5185m		<b>0</b>	0	0
Manganese	ppm	ASTM D5185m		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185m		<b>1</b>	2	<1
Calcium	ppm	ASTM D5185m		<b>5</b>	10	2
Phosphorus	ppm	ASTM D5185m		<b>72</b>	79	72
Zinc	ppm	ASTM D5185m		<b>1</b>	10	3
Sulfur	ppm	ASTM D5185m		<b>519</b>	501	730

## CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	<b>&lt;1</b>	<1	0
Sodium	ppm	ASTM D5185m		<b>19</b>	19	34
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	2	5

## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	<b>769</b>	---	448
Particles >6µm	ASTM D7647	>2500	<b>217</b>	---	147
Particles >14µm	ASTM D7647	>320	<b>23</b>	---	22
Particles >21µm	ASTM D7647	>80	<b>5</b>	---	6
Particles >38µm	ASTM D7647	>20	<b>0</b>	---	0
Particles >71µm	ASTM D7647	>4	<b>0</b>	---	0
Oil Cleanliness	ISO 4406 (c)	>20/18/15	<b>17/15/12</b>	---	16/14/12

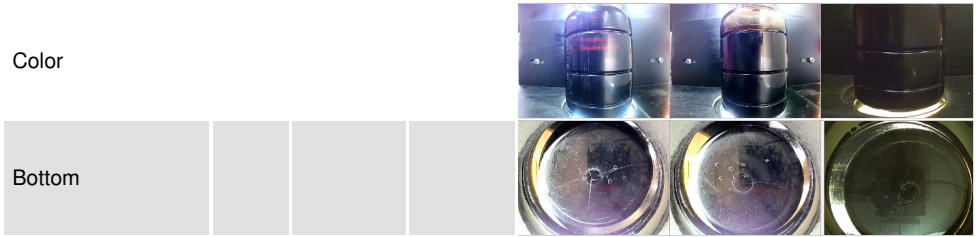
## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>2.68</b>	3.70	5.352

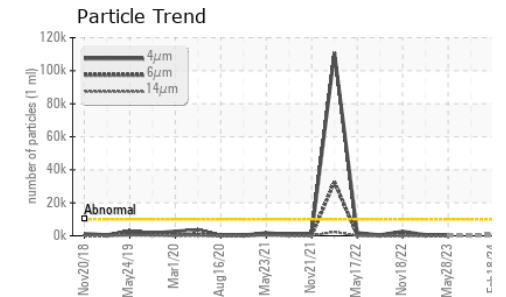
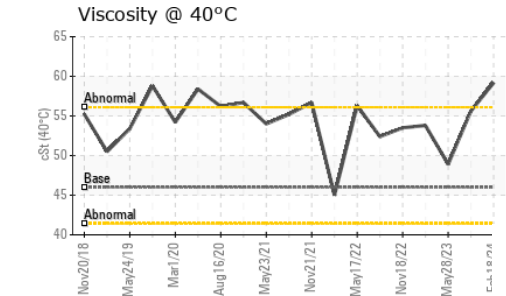
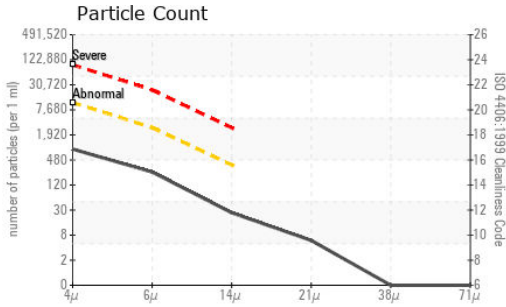
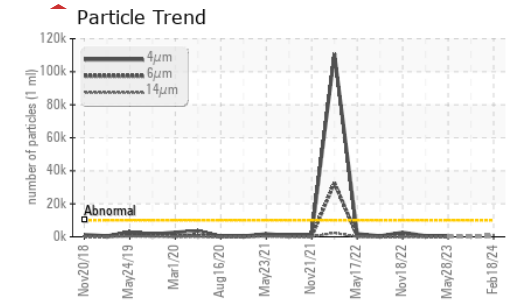
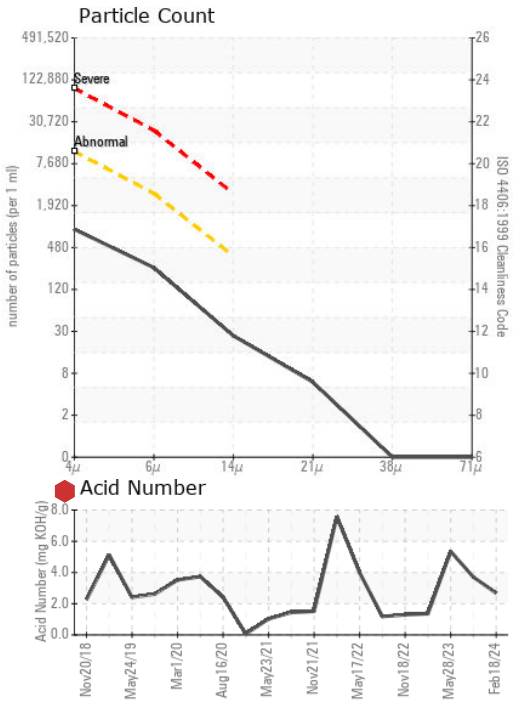
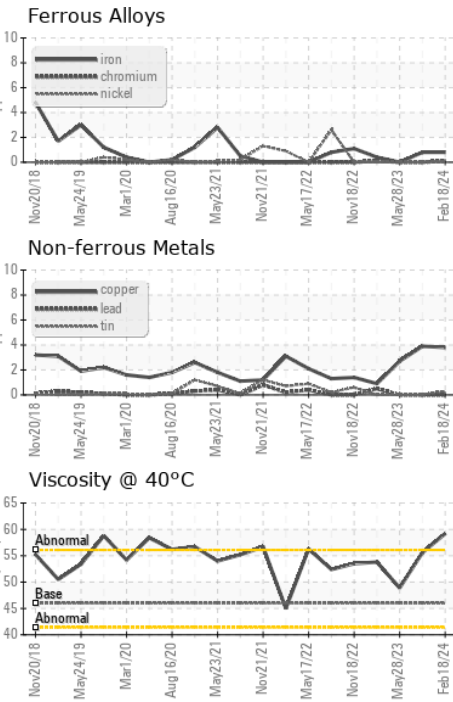
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	▲ MODER	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	46	59.2	55.6

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0894911 **Received** : 22 Feb 2024  
**Lab Number** : 06097664 **Tested** : 23 Feb 2024  
**Unique Number** : 10890517 **Diagnosed** : 25 Feb 2024 - Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: PrtCount )

**HORMEL FOODS - AUSTIN**  
 1101 NORTH MAIN ST  
 AUSTIN, MN  
 US 55912  
 Contact: RYAN LOWE  
 rslowe@hormel.com  
 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)