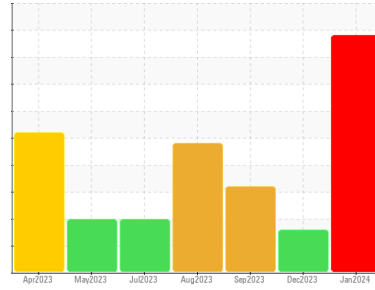




# PROBLEM SUMMARY

Sample Rating Trend



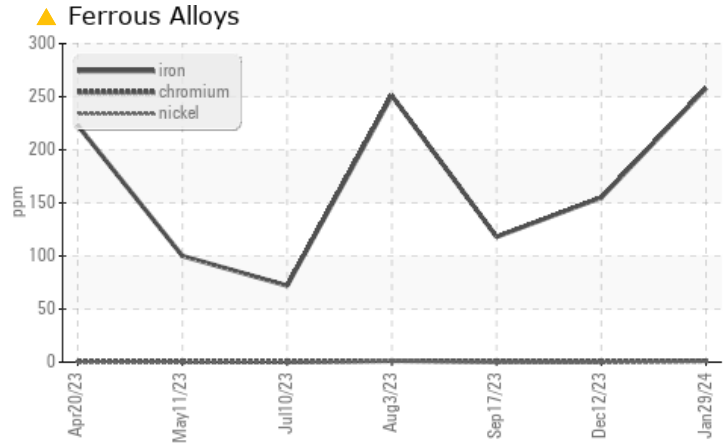
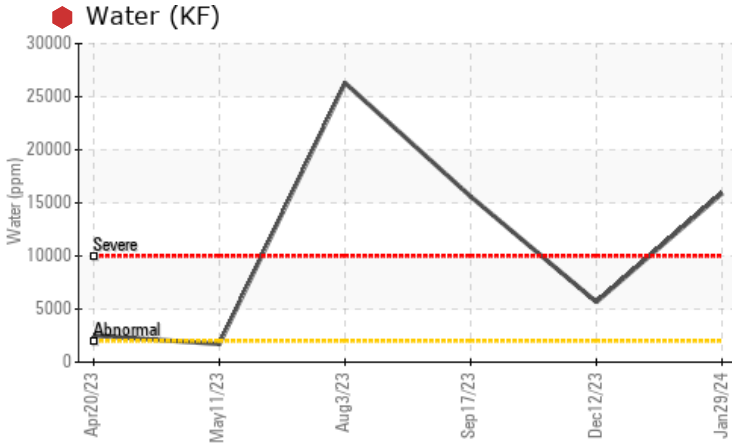
WATER



Machine Id  
**LINE 3 STOBER**

Component  
**Gearbox**  
Fluid  
**Gearbox Oil (--- QTS)**

## COMPONENT CONDITION SUMMARY



## RECOMMENDATION

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

## PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	ABNORMAL	SEVERE
Iron	ppm	ASTM D5185m	>200	▲ 258	155	118
Water	%	ASTM D6304	>0.2	● 1.59	▲ 0.567	● 1.56
ppm Water	ppm	ASTM D6304	>2000	● 15900	▲ 5670	● 15600
Emulsified Water	scalar	*Visual	>0.2	● 0.2%	0.2%	● 0.2%
Free Water	scalar	*Visual		● >10%	NEG	NEG

Customer Id: HORKNO  
Sample No.: WC0866802  
Lab Number: 06074674  
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:  
Jonathan Hester +1 919-379-4092 x4092  
[jhester@wearcheckusa.com](mailto:jhester@wearcheckusa.com)

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 from the component if this has not already been done.
Resample	---	---	?	We recommend an early resample to monitor this condition.
Check Water Access	---	---	?	We advise that you check for the source of water entry.

## HISTORICAL DIAGNOSIS

### 12 Dec 2023 Diag: Jonathan Hester

#### WATER



We advise that you check for the source of water entry. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate concentration of water present in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



### 17 Sep 2023 Diag: Jonathan Hester

#### WATER



We advise that you check for the source of water entry. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a high concentration of water present in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid.

view report



### 03 Aug 2023 Diag: Doug Bogart

#### WATER



We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid. Else, 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. There is too much water present in this sample to perform a particle count. Gear wear is indicated. Appearance is milky. There is a high concentration of water present in the oil. The AN level is acceptable for this fluid. The oil is no longer serviceable due to the presence of contaminants.

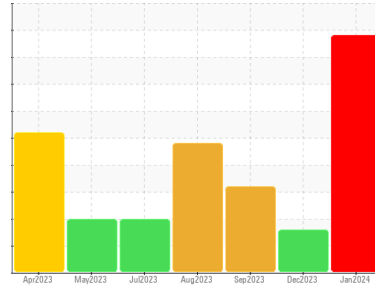
view report





# OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Machine Id  
**LINE 3 STOBER**

Component  
**Gearbox**  
Fluid  
**Gearbox Oil (--- QTS)**

## DIAGNOSIS

### Recommendation

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

### Wear

Gear wear is indicated.

### Contamination

Excessive free water present. There is a high concentration of water present in the oil. The amount and size of particulates present in the system are acceptable.

### Fluid Condition

The oil is no longer serviceable due to the presence of contaminants.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0866802</b>	WC0866797	WC0820539
Sample Date	Client Info		<b>29 Jan 2024</b>	12 Dec 2023	17 Sep 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>SEVERE</b>	ABNORMAL	SEVERE

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>200	<b>▲ 258</b>	155	118
Chromium	ppm	ASTM D5185m	>15	<b>1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>15	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>2</b>	1	0
Lead	ppm	ASTM D5185m	>100	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185m	>200	<b>&lt;1</b>	0	0
Tin	ppm	ASTM D5185m	>25	<b>1</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		<b>0</b>	0	0
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>0</b>	0	0
Manganese	ppm	ASTM D5185m		<b>2</b>	<1	1
Magnesium	ppm	ASTM D5185m		<b>8</b>	3	5
Calcium	ppm	ASTM D5185m		<b>7</b>	10	5
Phosphorus	ppm	ASTM D5185m		<b>413</b>	456	373
Zinc	ppm	ASTM D5185m		<b>0</b>	0	0
Sulfur	ppm	ASTM D5185m		<b>519</b>	576	688

## CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>50	<b>17</b>	7	9
Sodium	ppm	ASTM D5185m		<b>6</b>	0	1
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	1	0
Water	%	ASTM D6304	>0.2	<b>● 1.59</b>	▲ 0.567	● 1.56
ppm Water	ppm	ASTM D6304	>2000	<b>● 15900</b>	▲ 5670	● 15600

## FLUID CLEANLINESS

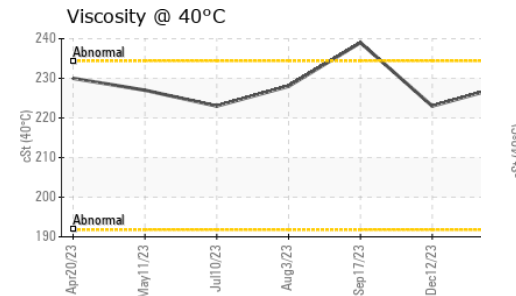
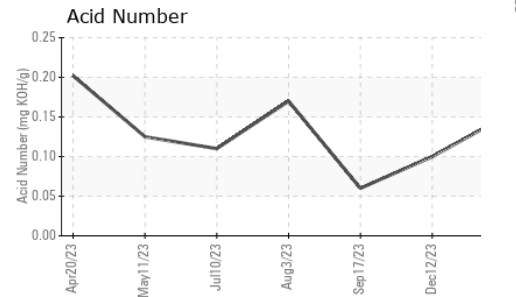
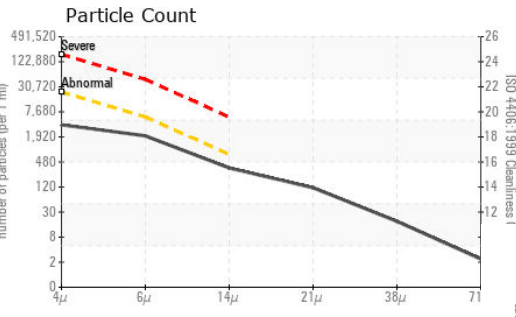
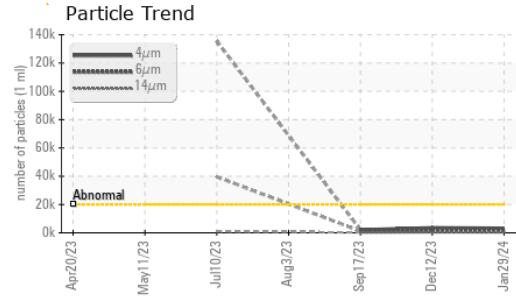
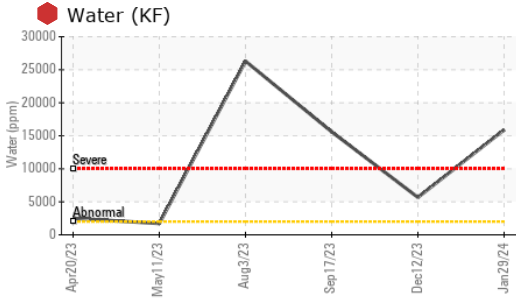
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	<b>3271</b>	3610	2157
Particles >6µm	ASTM D7647	>5000	<b>1782</b>	1967	1175
Particles >14µm	ASTM D7647	>640	<b>303</b>	335	200
Particles >21µm	ASTM D7647	>160	<b>102</b>	113	67
Particles >38µm	ASTM D7647	>40	<b>16</b>	17	10
Particles >71µm	ASTM D7647	>10	<b>2</b>	2	1
Oil Cleanliness	ISO 4406 (c)	>21/19/16	<b>19/18/15</b>	19/18/16	18/17/15

## FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.15</b>	0.10	0.06



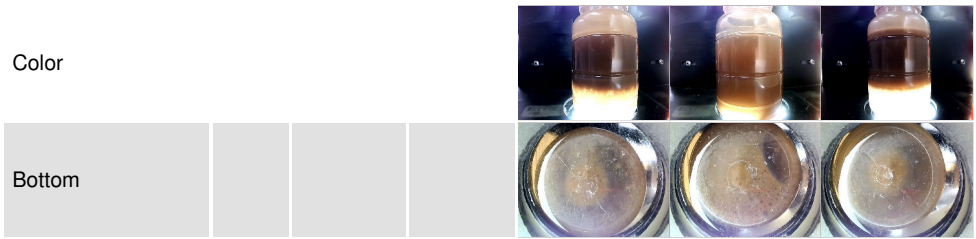
# OIL ANALYSIS REPORT



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	>0.2	0.2%	0.2%
Free Water	scalar	*Visual	>10%	NEG	NEG

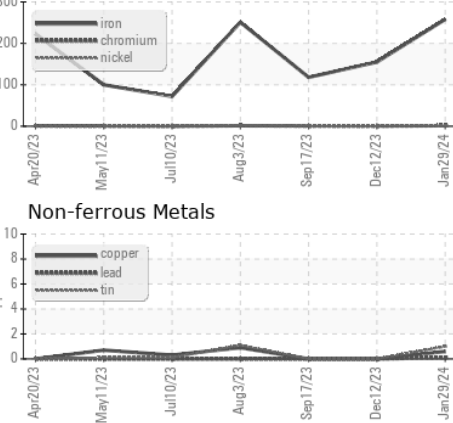
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	228	223	239

SAMPLE IMAGES	method	limit/base	current	history1	history2
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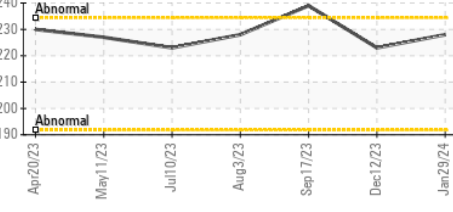


## GRAPHS

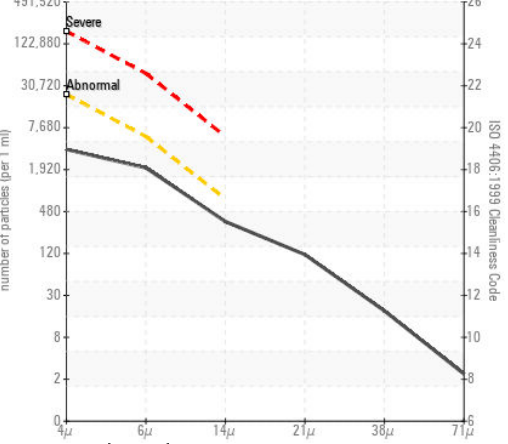
### Ferrous Alloys



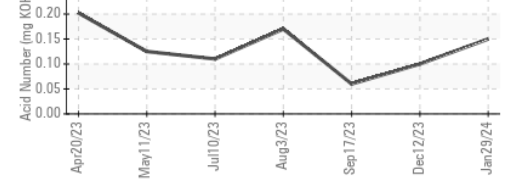
### Non-ferrous Metals



### Particle Count



### Acid Number



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0866802 **Received** : 30 Jan 2024  
**Lab Number** : 06074674 **Diagnosed** : 02 Feb 2024  
**Unique Number** : 10856765 **Diagnostician** : Jonathan Hester  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**HORMEL FOODS KXV**  
 209 N GODFREY LN  
 KNOXVILLE, IA  
 US 50138  
 Contact: MATT WILLIAMS  
 MAWILLIAMS@HORMEL.COM  
 T: (641)842-6841  
 F: (641)842-3354

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)