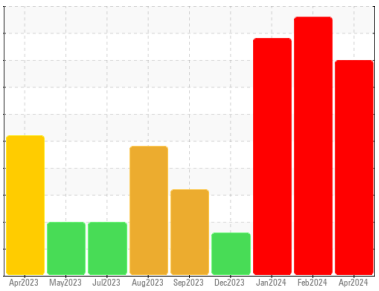
PROBLEM SUMMARY

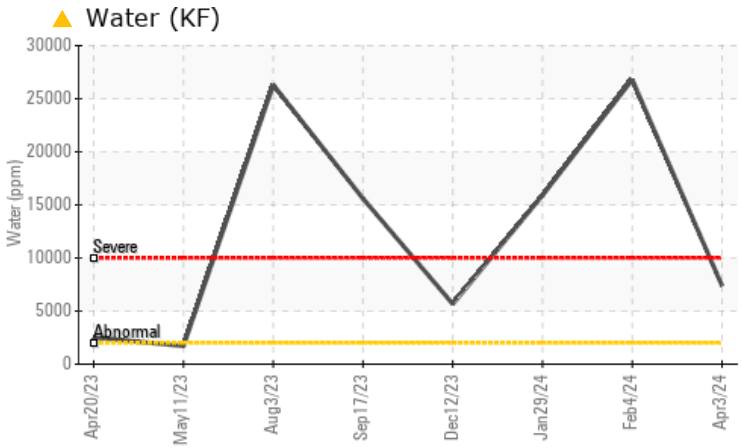
Sample Rating Trend



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 advise that you follow the water drain-off procedure for this component. We recommend you service the filters on this component if applicable. 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.

PROBLEMATIC TEST RESULTS

Sample Status				**SEVERE**	SEVERE	SEVERE
Water	%	ASTM D6304	>0.2	▲ **0.739**	▲ 2.68	▲ 1.59
ppm Water	ppm	ASTM D6304	>2000	▲ **7390**	▲ 26800	▲ 15900
Silt	scalar	*Visual	NONE	▲ **MODER**	NONE	NONE
Free Water	scalar	*Visual		▲ **5.0**	▲ >10%	▲ >10%

Customer Id: HORKNO
Sample No.: WC0866768
Lab Number: 06138520
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

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

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Filter	---	---	?	We recommend you service the filters on this component if applicable.
Water Drain-off	---	---	?	We advise that you follow the water drain-off procedure for this component.
Resample	---	---	?	We recommend an early resample to monitor this condition.
Alert	---	---	?	We were unable to perform a particle count due to a high concentration of particles present in this sample.
Check Water Access	---	---	?	We advise that you check for the source of water entry.

HISTORICAL DIAGNOSIS

WATER

04 Feb 2024 Diag: Jonathan Hester

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.Gear wear is indicated. Appearance is hazy. 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. The oil is no longer serviceable due to the presence of contaminants.

view report

WATER

29 Jan 2024 Diag: Jonathan Hester

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

view report

WATER

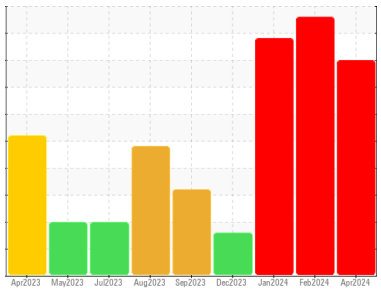
12 Dec 2023 Diag: Jonathan Hester

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

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 advise that you follow the water drain-off procedure for this component. We recommend you service the filters on this component if applicable. 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.

Wear
All component wear rates are normal.

▲ Contamination
Appearance is milky. Excessive free water present. There is a high concentration of water present in the oil. There is a moderate amount of visible silt present in the sample.

Fluid Condition
The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0866768**	WC0866799	WC0866802
Sample Date		Client Info		**03 Apr 2024**	04 Feb 2024	29 Jan 2024
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				**SEVERE**	SEVERE	SEVERE

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	**173**	▲ 220	▲ 258
Chromium	ppm	ASTM D5185m	>15	**1**	<1	1
Nickel	ppm	ASTM D5185m	>15	**<1**	<1	<1
Titanium	ppm	ASTM D5185m		**<1**	0	<1
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>25	**2**	<1	2
Lead	ppm	ASTM D5185m	>100	**0**	<1	<1
Copper	ppm	ASTM D5185m	>200	**<1**	0	<1
Tin	ppm	ASTM D5185m	>25	**<1**	<1	1
Vanadium	ppm	ASTM D5185m		**<1**	0	<1
Cadmium	ppm	ASTM D5185m		**0**	0	<1

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**0**	0	0
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**0**	0	0
Manganese	ppm	ASTM D5185m		**2**	1	2
Magnesium	ppm	ASTM D5185m		**2**	8	8
Calcium	ppm	ASTM D5185m		**7**	3	7
Phosphorus	ppm	ASTM D5185m		**471**	450	413
Zinc	ppm	ASTM D5185m		**2**	4	0
Sulfur	ppm	ASTM D5185m		**534**	504	519

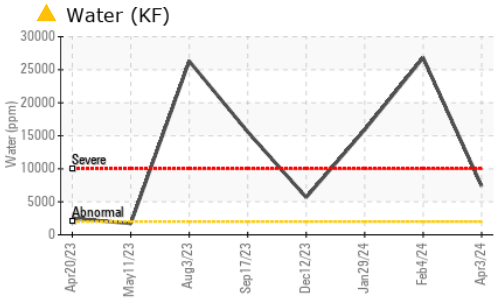
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	**9**	13	17
Sodium	ppm	ASTM D5185m		**4**	1	6
Potassium	ppm	ASTM D5185m	>20	**2**	0	2
Water	%	ASTM D6304	>0.2	▲ **0.739**	▲ 2.68	▲ 1.59
ppm Water	ppm	ASTM D6304	>2000	▲ **7390**	▲ 26800	▲ 15900

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	**---**	1931	3271
Particles >6µm		ASTM D7647	>5000	**---**	1052	1782
Particles >14µm		ASTM D7647	>640	**---**	179	303
Particles >21µm		ASTM D7647	>160	**---**	60	102
Particles >38µm		ASTM D7647	>40	**---**	9	16
Particles >71µm		ASTM D7647	>10	**---**	1	2
Oil Cleanliness		ISO 4406 (c)	>21/19/16	**---**	18/17/15	19/18/15

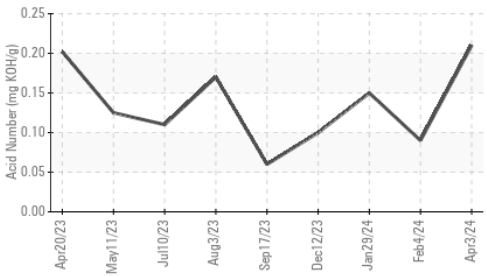
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.21**	0.09	0.15

OIL ANALYSIS REPORT

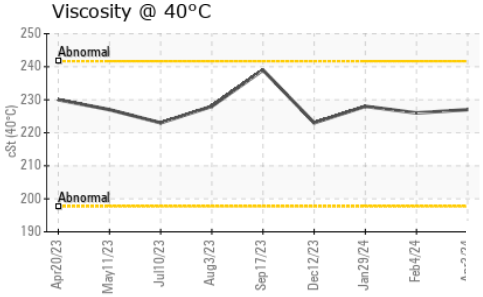
Water (KF)



Acid Number



Viscosity @ 40°C



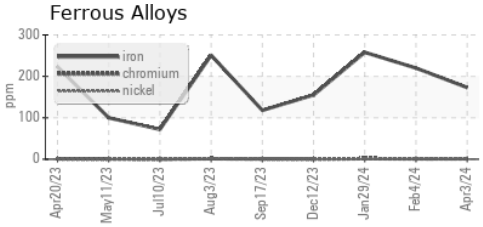
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	▲ **MODER**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	● **MILKY**	● HAZY	NORML
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	**0.2%**	▲ 0.2%	▲ 0.2%
Free Water	scalar	*Visual		▲ **5.0**	▲ >10%	▲ >10%

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		**227**	226	228

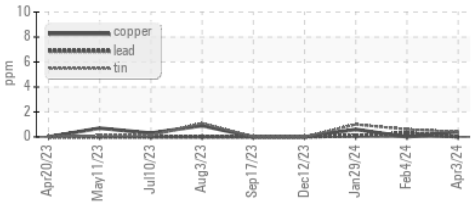
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

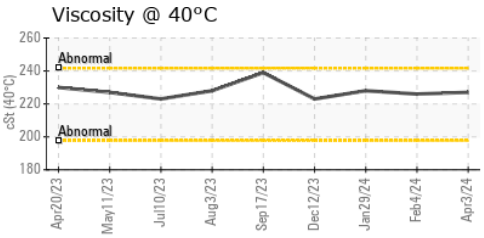
Ferrous Alloys



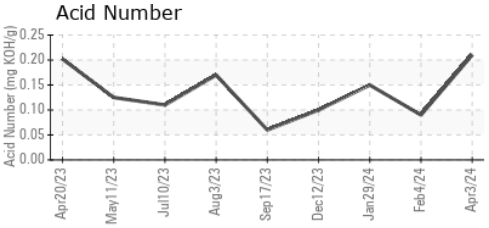
Non-ferrous Metals



Viscosity @ 40°C



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0866768 **Received** : 04 Apr 2024
Lab Number : 06138520 **Tested** : 09 Apr 2024
Unique Number : 10963328 **Diagnosed** : 09 Apr 2024 - Jonathan Hester
Test Package : IND 2 (Additional Tests: KF, PrtCount)

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)

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