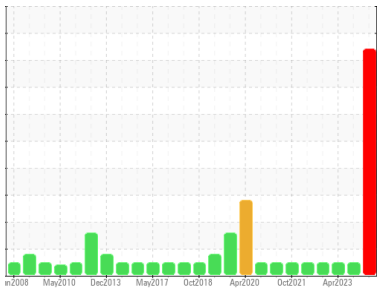
PROBLEM SUMMARY

Sample Rating Trend



WEAR

Area

LFC-1030-CM-01-CM030 [1958017]

Machine Id

ND01MT23-1030 - RECEIVING HOPPER

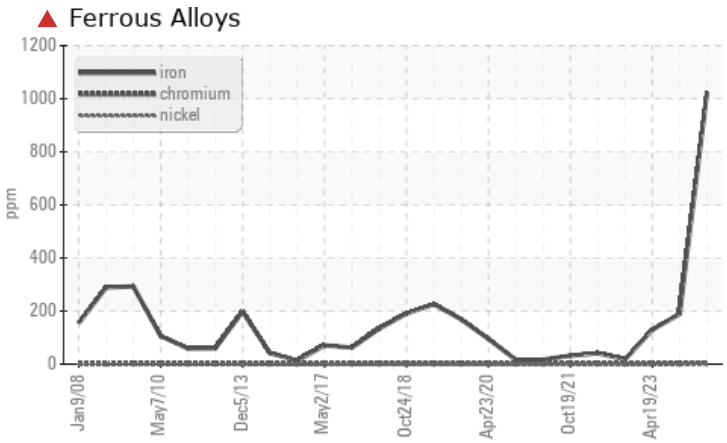
Component

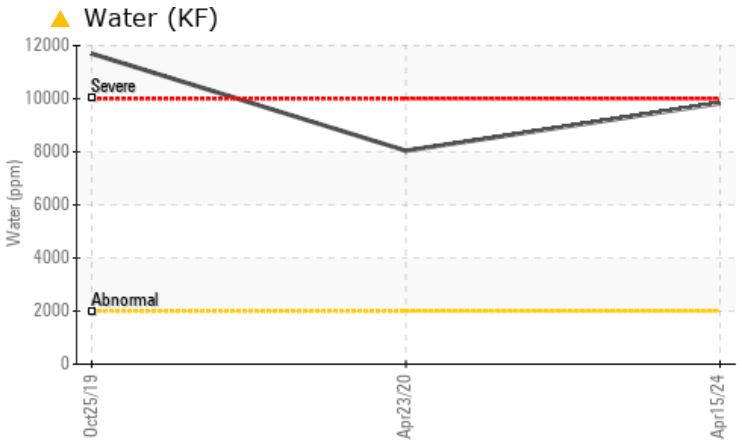
Gearbox

Fluid

LE 4220 (--- GAL)

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 advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				**SEVERE**	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>200	▲ **1025**	189	130
Water	%	ASTM D6304	>0.2	▲ **0.983**	---	---
ppm Water	ppm	ASTM D6304	>2000	▲ **9830**	---	---
Emulsified Water	scalar	*Visual	>0.2	▲ **0.2%**	NEG	NEG

Customer Id: LEPALL
Sample No.: WC0918543
Lab Number: 06154556
Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:
Don Baldridge +1
don.b505@comcast.net

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

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Inspect Wear Source	---	---	?	We advise that you inspect for the source(s) of wear.
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.
Check Water Access	---	---	?	We advise that you check for the source of water entry.

HISTORICAL DIAGNOSIS

NORMAL

20 Oct 2023 Diag: Wes Davis
Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.All component wear rates are normal. 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

NORMAL

19 Apr 2023 Diag: Don Baldridge
Resample at the next service interval to monitor.All component wear rates are normal. Iron noted. 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

NORMAL

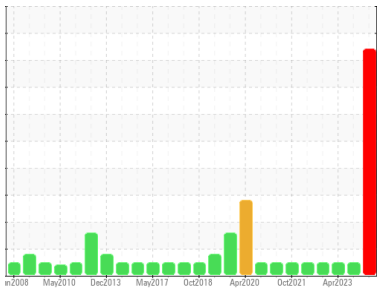
22 Oct 2022 Diag: Wes Davis
Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.All component wear rates are normal. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

OIL ANALYSIS REPORT

Area
LFC-1030-CM-01-CM030 [1958017]
Machine Id
ND01MT23-1030 - RECEIVING HOPPER
Component
Gearbox
Fluid
LE 4220 (--- GAL)

Sample Rating Trend



WEAR

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 advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

▲ Wear
The iron level is severe. Gear wear is indicated.

▲ Contamination
Appearance is hazy. There is a high concentration of water present in the oil.

Fluid Condition
The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0918543**	WC0851566	WC0793917
Sample Date		Client Info		**15 Apr 2024**	20 Oct 2023	19 Apr 2023
Machine Age	hrs	Client Info		**180**	0	0
Oil Age	hrs	Client Info		**180**	0	0
Oil Changed		Client Info		**N/A**	N/A	N/A
Sample Status				**SEVERE**	NORMAL	NORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	▲ **1025**	189	130
Chromium	ppm	ASTM D5185m	>15	**3**	1	<1
Nickel	ppm	ASTM D5185m	>15	**1**	0	0
Titanium	ppm	ASTM D5185m		**<1**	0	0
Silver	ppm	ASTM D5185m		**<1**	0	0
Aluminum	ppm	ASTM D5185m	>25	**7**	<1	<1
Lead	ppm	ASTM D5185m	>100	**<1**	0	0
Copper	ppm	ASTM D5185m	>200	**4**	4	<1
Tin	ppm	ASTM D5185m	>25	**0**	<1	0
Vanadium	ppm	ASTM D5185m		**<1**	0	0
Cadmium	ppm	ASTM D5185m		**<1**	0	0

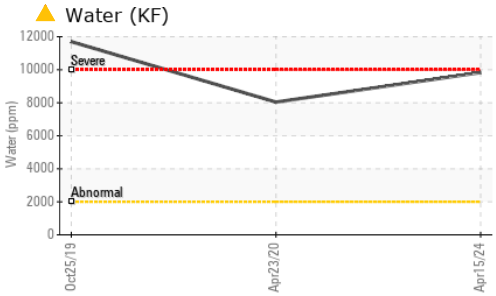
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**12**	<1	3
Barium	ppm	ASTM D5185m		**0**	2	6
Molybdenum	ppm	ASTM D5185m		**0**	0	0
Manganese	ppm	ASTM D5185m		**7**	2	3
Magnesium	ppm	ASTM D5185m		**3**	0	5
Calcium	ppm	ASTM D5185m		**17**	3	6
Phosphorus	ppm	ASTM D5185m		**281**	269	332
Zinc	ppm	ASTM D5185m		**140**	55	57
Sulfur	ppm	ASTM D5185m		**15534**	7238	19264

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	**23**	9	11
Sodium	ppm	ASTM D5185m		**22**	2	3
Potassium	ppm	ASTM D5185m	>20	**4**	0	0
Water	%	ASTM D6304	>0.2	▲ **0.983**	---	---
ppm Water	ppm	ASTM D6304	>2000	▲ **9830**	---	---

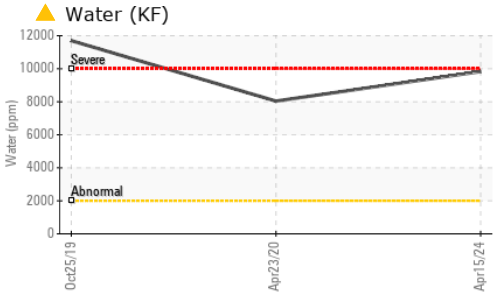
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.80**	0.46	0.61

OIL ANALYSIS REPORT

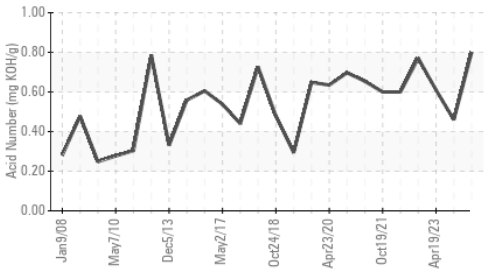
Water (KF)



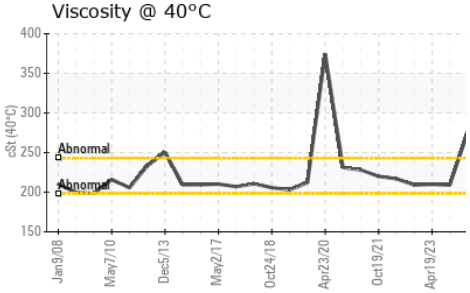
Water (KF)



Acid Number

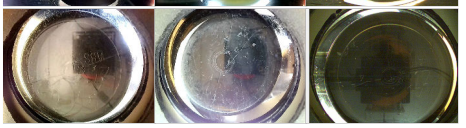


Viscosity @ 40°C



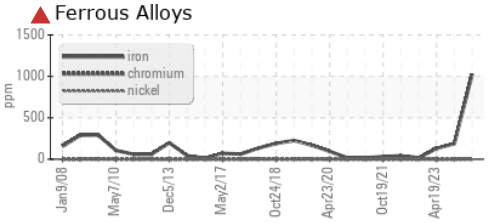
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	LIGHT
Sand/Dirt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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		**275**	209	210

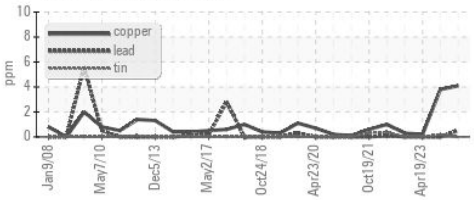
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

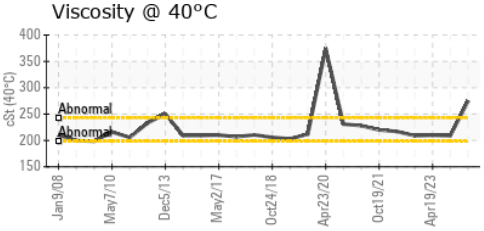
Ferrous Alloys



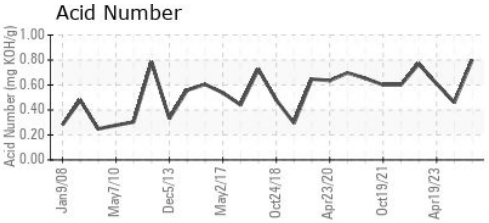
Non-ferrous Metals



Viscosity @ 40°C



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0918543
Lab Number : 06154556
Unique Number : 10989979
Test Package : IND 2 (Additional Tests: KF)

Received : 19 Apr 2024
Tested : 23 Apr 2024
Diagnosed : 23 Apr 2024 - Don Baldridge

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)

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ALLENDALE, MI
US 49401
Contact: BILL FERRIER
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Report Id: LEPALL [WUSCAR] 06154556 (Generated: 04/23/2024 17:54:47) Rev: 2

Submitted By: DANIEL WARNOCK