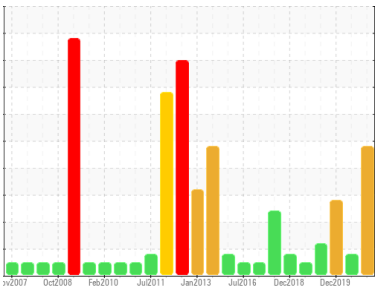
PROBLEM SUMMARY

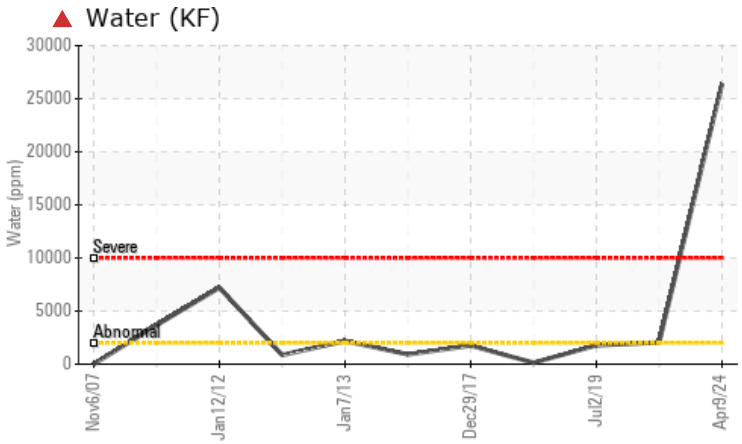
Sample Rating Trend

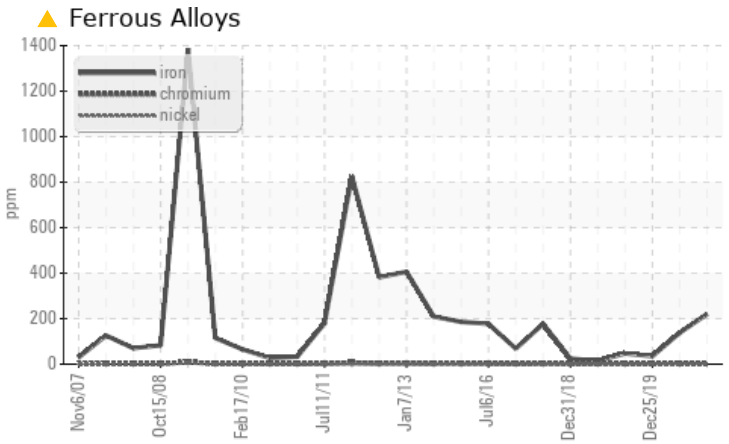


WATER

Area
LFC-1030-CM-01-CM023 [1940187]
Machine Id
P201PP05-1030 - SURGE HOPPER#2 DRIVE
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 use off-line filtration with water adsorbent filters to attempt to remove the water from this oil or we advise that you follow the water drain-off procedure for this component. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	ATTENTION	ABNORMAL
Iron	ppm	ASTM D5185m	>200	▲ **220**	● 138	35
Water	%	ASTM D6304	>0.2	▲ **2.64**	---	▲ 0.205
ppm Water	ppm	ASTM D6304	>2000	▲ **26400**	---	▲ 2050
Emulsified Water	scalar	*Visual	>0.2	▲ **0.2%**	NEG	0.2%

Customer Id: LEPALL
Sample No.: WC0913992
Lab Number: 06147483
Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:
Angela Borella +1 800-237-1369
angela.borella@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
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.
Filter Fluid	---	---	?	We advise that you use off-line filtration with water adsorbent filters to attempt to remove the water from this oil.

HISTORICAL DIAGNOSIS

WEAR

26 Mar 2023 Diag: Doug Bogart
No corrective action is recommended at this time. Resample at the next service interval to monitor.An increase in the iron level is noted. 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

WATER

25 Dec 2019 Diag: Don Baldridge
We suspect abnormal contamination may be due to sampling method. No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. Appearance is hazy. Moderate concentration of visible dirt/debris present in the oil. There is a trace of moisture present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

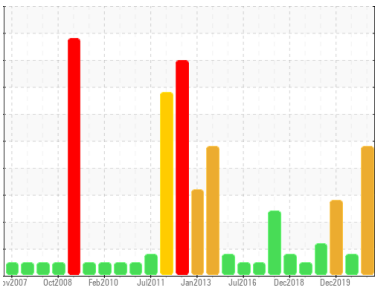
CONTAMINANT

02 Jul 2019 Diag: Don Baldridge
We suspect abnormal contamination may be due to sampling method. No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. Appearance is milky. Moderate concentration of visible dirt/debris present 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



WATER

Area
LFC-1030-CM-01-CM023 [1940187]
Machine Id
P201PP05-1030 - SURGE HOPPER#2 DRIVE
Component
Gearbox
Fluid
LE 4220 (--- GAL)

DIAGNOSIS

Recommendation
We advise that you check for the source of water entry. We advise that you use off-line filtration with water adsorbent filters to attempt to remove the water from this oil or we advise that you follow the water drain-off procedure for this component. We recommend an early resample to monitor this condition.

Wear
The iron level is abnormal.

Contamination
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		**WC0913992**	WC0771846	WC0402625
Sample Date		Client Info		**09 Apr 2024**	26 Mar 2023	25 Dec 2019
Machine Age	hrs	Client Info		**0**	0	0
Oil Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**N/A**	N/A	Not Changd
Sample Status				**SEVERE**	ATTENTION	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	▲ **220**	138	35
Chromium	ppm	ASTM D5185m	>15	**0**	1	<1
Nickel	ppm	ASTM D5185m	>15	**0**	<1	<1
Titanium	ppm	ASTM D5185m		**0**	0	0
Silver	ppm	ASTM D5185m		**0**	0	<1
Aluminum	ppm	ASTM D5185m	>25	**0**	<1	0
Lead	ppm	ASTM D5185m	>100	**0**	0	0
Copper	ppm	ASTM D5185m	>200	**4**	<1	<1
Tin	ppm	ASTM D5185m	>25	**0**	0	0
Antimony	ppm	ASTM D5185m	>5	**---**	---	0
Vanadium	ppm	ASTM D5185m		**0**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

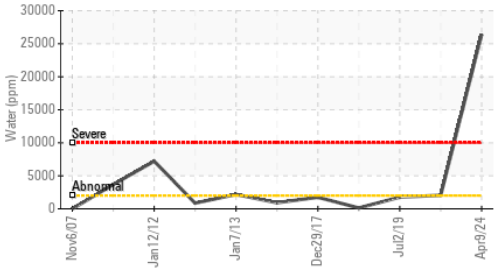
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**0**	0	0
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**0**	0	0
Manganese	ppm	ASTM D5185m		**<1**	2	<1
Magnesium	ppm	ASTM D5185m		**0**	3	<1
Calcium	ppm	ASTM D5185m		**1**	4	13
Phosphorus	ppm	ASTM D5185m		**237**	368	409
Zinc	ppm	ASTM D5185m		**9**	21	280
Sulfur	ppm	ASTM D5185m		**2142**	1819	3094

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	**11**	3	2
Sodium	ppm	ASTM D5185m		**2**	2	0
Potassium	ppm	ASTM D5185m	>20	**<1**	<1	<1
Water	%	ASTM D6304	>0.2	▲ **2.64**	---	▲ 0.205
ppm Water	ppm	ASTM D6304	>2000	▲ **26400**	---	▲ 2050

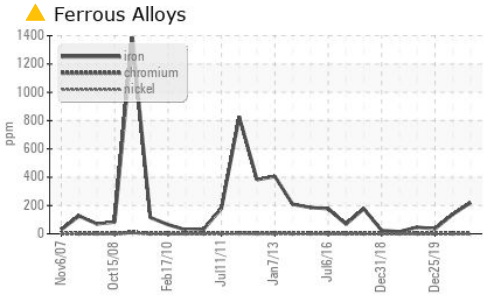
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.54**	0.41	0.510

OIL ANALYSIS REPORT

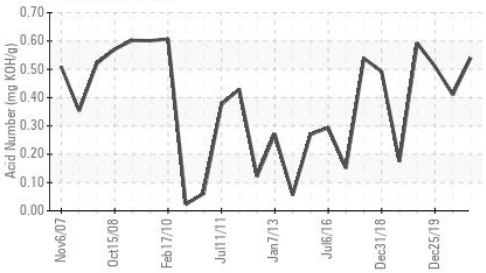
Water (KF)



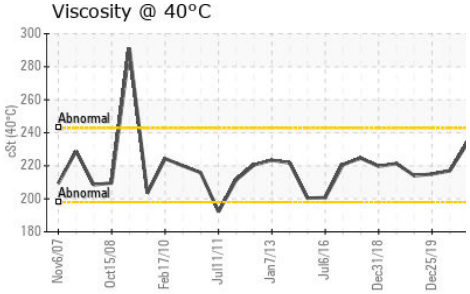
Ferrous Alloys



Acid Number



Viscosity @ 40°C



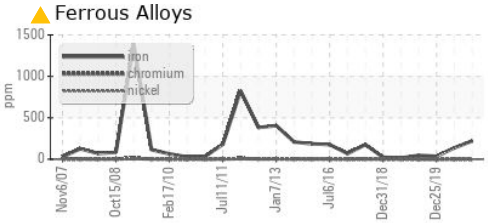
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**MODER**	MODER	NONE
Debris	scalar	*Visual	NONE	**NONE**	LIGHT	▲ MODER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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		**234**	217	215

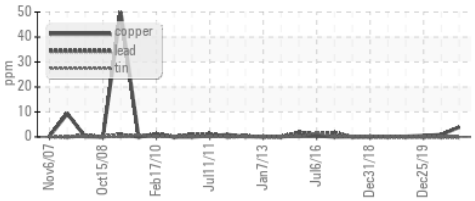
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

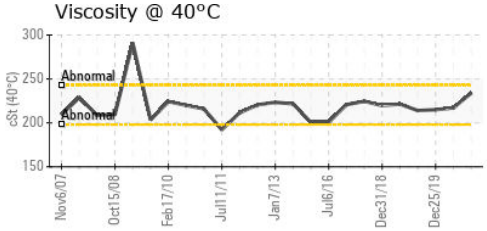
Ferrous Alloys



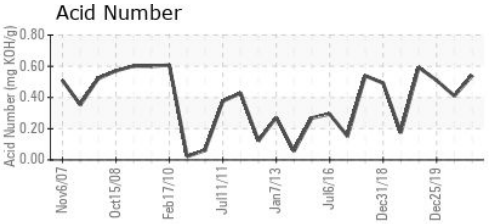
Non-ferrous Metals



Viscosity @ 40°C



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0913992 **Received** : 12 Apr 2024
Lab Number : 06147483 **Tested** : 16 Apr 2024
Unique Number : 10977561 **Diagnosed** : 16 Apr 2024 - Angela Borella
Test Package : IND 2 (Additional Tests: KF)

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
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BFERRIER@LEPRINOFOODS.COM
T:
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Report Id: LEPALL [WUSCAR] 06147483 (Generated: 04/16/2024 11:49:09) Rev: 1

Submitted By: DANIEL WARNOCK