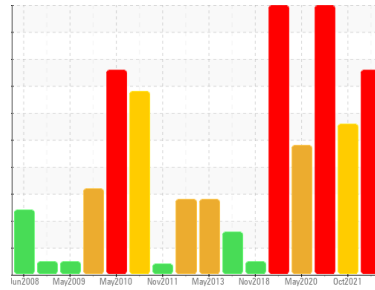




PROBLEM SUMMARY

Area
LFC-1030-CM-01-CM030
 Machine Id
DT03PP01-1030 - Pump
 Component
Pump
 Fluid
LE 4220 (--- GAL)

Sample Rating Trend

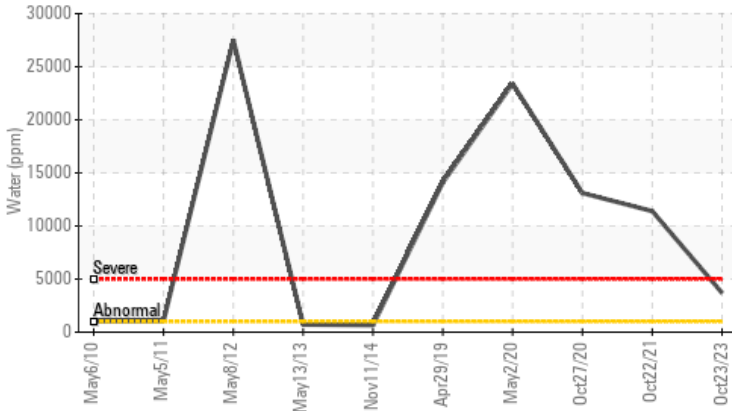


WATER



COMPONENT CONDITION SUMMARY

▲ Water (KF)



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, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	SEVERE	SEVERE
Water	%	ASTM D6304	>.1	▲ 0.370	● 1.14	● 1.31
ppm Water	ppm	ASTM D6304	>1000	▲ 3700	● 11400	● 13100
Debris	scalar	*Visual	NONE	▲ MODER	LIGHT	▲ MODER
Appearance	scalar	*Visual	NORML	▲ HAZY	NORML	▲ HAZY
Emulsified Water	scalar	*Visual	>.1	▲ 0.2%	NEG	● 0.2%
Free Water	scalar	*Visual		● 10.0	▲ 1.0	● 1.0

Customer Id: LEPALL
 Sample No.: WC0851574
 Lab Number: 05996837
 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

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, and use off-line filtration to improve the cleanliness of the system fluid.
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

22 Oct 2021 Diag: Jonathan Hester

WATER



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. The iron level is abnormal. All other component wear rates are normal. Free water present. There is a high concentration of water present in the oil. The oil is no longer serviceable due to the presence of contaminants.

view report



27 Oct 2020 Diag: Doug Bogart

WATER



We advise that you check for the source of water entry. 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. We recommend an early resample to monitor this condition. Gear wear is indicated. Free water present. There is a high concentration of water present in the oil. Moderate concentration of visible dirt/debris 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



02 May 2020 Diag: Don Baldrige

WATER



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 an early resample to monitor this condition. The iron level has decreased, but is still abnormal. Gear wear is indicated. There is a high concentration of water present in the oil. The AN level is acceptable for this fluid.

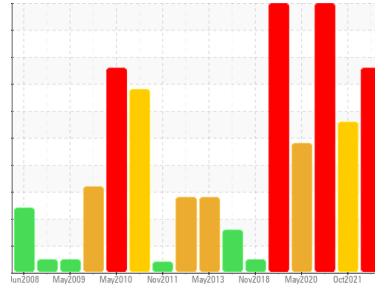
view report





OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Area
LFC-1030-CM-01-CM030
 Machine Id
DT03PP01-1030 - Pump
 Component
Pump
 Fluid
LE 4220 (--- GAL)

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, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

Moderate concentration of visible dirt/debris present in the oil. There is a light concentration of water present in the oil. Excessive free water present.

Fluid Condition

The AN level is acceptable for this fluid. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0851574	WC0587070	WC0505684
Sample Date	Client Info		23 Oct 2023	22 Oct 2021	27 Oct 2020
Machine Age	hrs	Client Info	0	0	0
Oil Age	hrs	Client Info	0	0	0
Oil Changed	Client Info		N/A	Not Changd	N/A
Sample Status			SEVERE	SEVERE	SEVERE

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >90	8	▲ 124	▲ 106
Chromium	ppm	ASTM D5185m >5	0	3	3
Nickel	ppm	ASTM D5185m >5	1	1	<1
Titanium	ppm	ASTM D5185m >3	0	<1	<1
Silver	ppm	ASTM D5185m >3	0	<1	2
Aluminum	ppm	ASTM D5185m >7	0	<1	<1
Lead	ppm	ASTM D5185m >12	0	<1	1
Copper	ppm	ASTM D5185m >30	0	<1	1
Tin	ppm	ASTM D5185m >9	0	<1	<1
Antimony	ppm	ASTM D5185m	---	0	0
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	0	2

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	5	4
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	0	<1	<1
Manganese	ppm	ASTM D5185m	0	<1	<1
Magnesium	ppm	ASTM D5185m	0	<1	1
Calcium	ppm	ASTM D5185m	0	6	11
Phosphorus	ppm	ASTM D5185m	104	115	409
Zinc	ppm	ASTM D5185m	<1	10	15
Sulfur	ppm	ASTM D5185m	1777	1576	1040

CONTAMINANTS

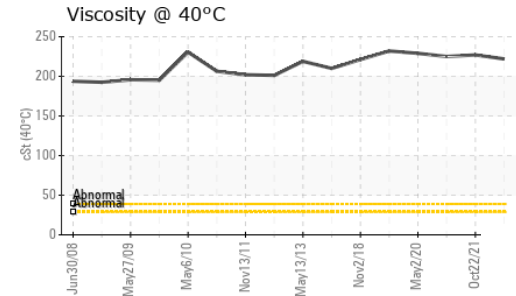
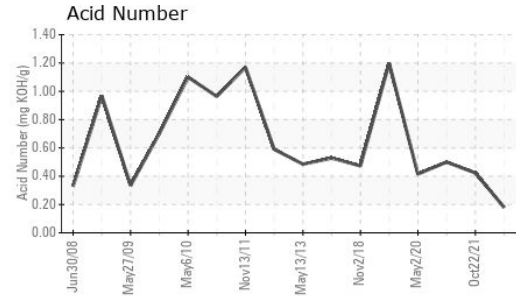
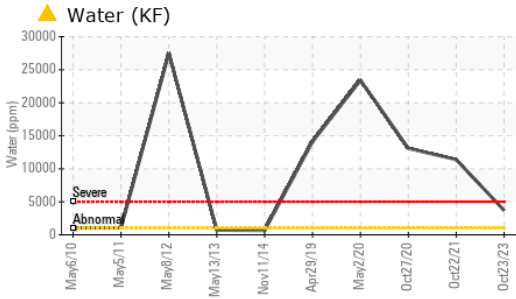
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >60	<1	6	7
Sodium	ppm	ASTM D5185m	6	13	9
Potassium	ppm	ASTM D5185m >20	<1	0	<1
Water	%	ASTM D6304 >.1	▲ 0.370	● 1.14	● 1.31
ppm Water	ppm	ASTM D6304 >1000	▲ 3700	● 11400	● 13100

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.18	0.423	0.500



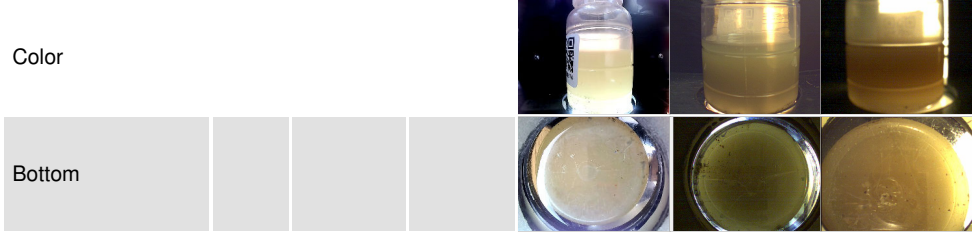
OIL ANALYSIS REPORT



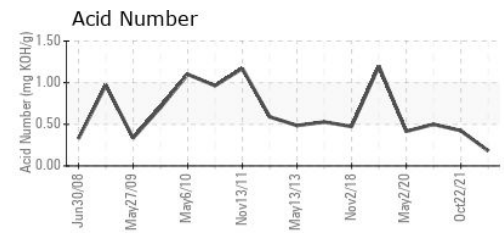
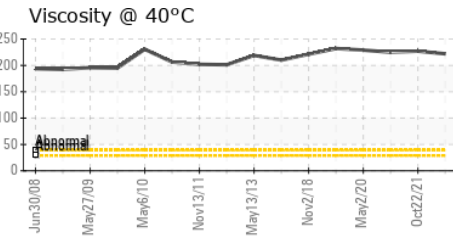
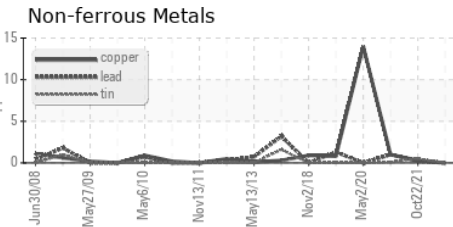
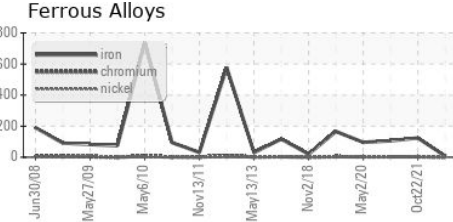
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	VLITE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	▲ MODER	LIGHT	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	▲ HAZY	NORML	▲ HAZY
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.1	▲ 0.2%	NEG	● 0.2%
Free Water	scalar	*Visual		● 10.0	▲ 1.0	● 1.0

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	222	227	225

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0851574 **Received** : 02 Nov 2023
Lab Number : 05996837 **Diagnosed** : 04 Nov 2023
Unique Number : 10725197 **Diagnostician** : Don Baldrige
Test Package : IND 2 (Additional Tests: KF)

LEPRINO FOODS - ALLENDALE
 4700 RICH STREET
 ALLENDALE, MI
 US 49401
 Contact: BILL FERRIER
 BFERRIER@LEPRINOFOODS.COM

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)

T:
F: