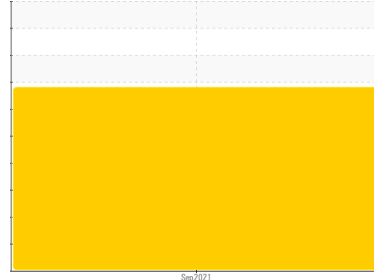
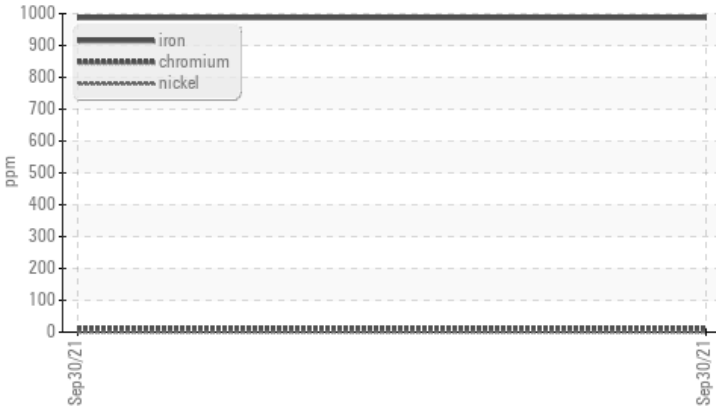


Machine Id  
**LIEBHERR 184-713**  
 Component  
**1 Winch**  
 Fluid  
**GEAR OIL SAE 80W90 (--- GAL)**



**COMPONENT CONDITION SUMMARY**

**Ferrous Alloys**



**RECOMMENDATION**

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				<b>SEVERE</b>	---	---
Iron	ppm	ASTM D5185m	>150	<b>987</b>	---	---
Chromium	ppm	ASTM D5185m		<b>11</b>	---	---

**Customer Id:** LEC0033  
**Sample No.:** LH0200476  
**Lab Number:** 05411459  
**Test Package:** MOBCE



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Don Baldrige +1  
[don.b505@comcast.net](mailto:don.b505@comcast.net)

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
Inspect Wear Source	---	---	?	We advise that you inspect for the source(s) of wear.
Resample	---	---	?	We recommend an early resample to monitor this condition.

## HISTORICAL DIAGNOSIS

Machine Id  
**LIEBHERR 184-713**  
 Component  
**1 Winch**  
 Fluid  
**GEAR OIL SAE 80W90 (--- GAL)**



**DIAGNOSIS**

**Recommendation**

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

**Wear**

Gear wear is indicated.

**Contamination**

There is no indication of any contamination in the oil.

**Fluid Condition**

The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>LH0200476</b>	---	---
Sample Date	Client Info			<b>30 Sep 2021</b>	---	---
Machine Age	hrs	Client Info		<b>8339</b>	---	---
Oil Age	hrs	Client Info		<b>0</b>	---	---
Oil Changed	Client Info			<b>N/A</b>	---	---
Sample Status				<b>SEVERE</b>	---	---

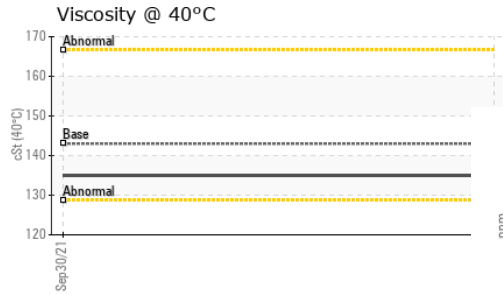
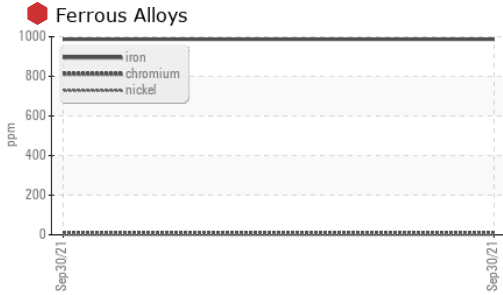
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>150	<b>987</b>	---	---
Chromium	ppm	ASTM D5185m		<b>11</b>	---	---
Nickel	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Silver	ppm	ASTM D5185m		<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m	>5	<b>4</b>	---	---
Lead	ppm	ASTM D5185m	>15	<b>&lt;1</b>	---	---
Copper	ppm	ASTM D5185m	>80	<b>9</b>	---	---
Tin	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Antimony	ppm	ASTM D5185m		<b>0</b>	---	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	---	---
Cadmium	ppm	ASTM D5185m		<b>0</b>	---	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	400	<b>57</b>	---	---
Barium	ppm	ASTM D5185m	200	<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185m	12	<b>1</b>	---	---
Manganese	ppm	ASTM D5185m		<b>5</b>	---	---
Magnesium	ppm	ASTM D5185m	12	<b>1</b>	---	---
Calcium	ppm	ASTM D5185m	150	<b>51</b>	---	---
Phosphorus	ppm	ASTM D5185m	1650	<b>1143</b>	---	---
Zinc	ppm	ASTM D5185m	125	<b>291</b>	---	---
Sulfur	ppm	ASTM D5185m	22500	<b>17930</b>	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>6</b>	---	---
Sodium	ppm	ASTM D5185m	>170	<b>&lt;1</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	---	---

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	<b>VLITE</b>	---	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	---	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	---	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	---	---
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	---	---
Free Water	scalar	*Visual		<b>NEG</b>	---	---

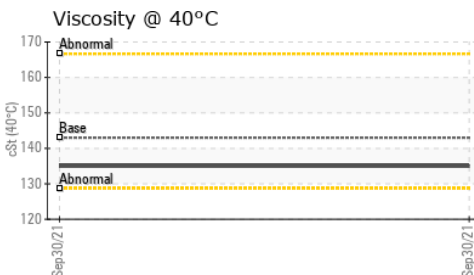
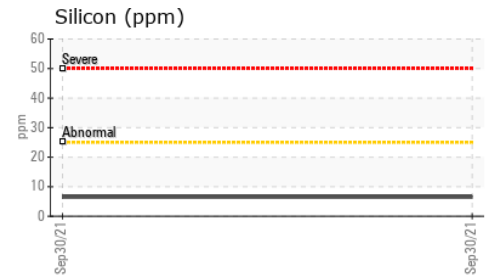
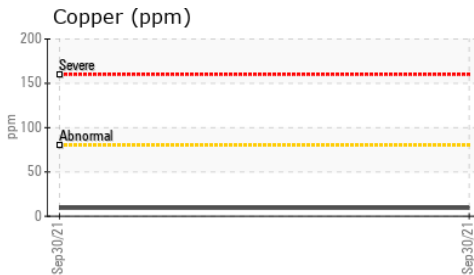
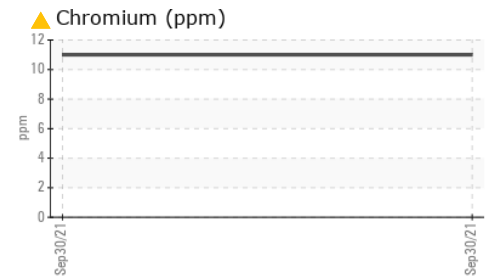
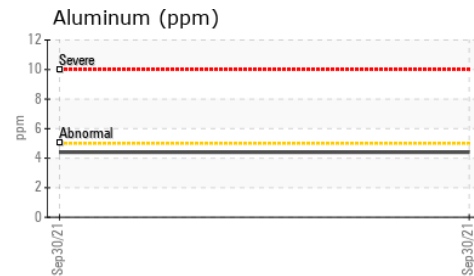
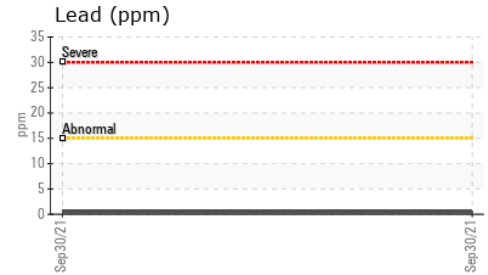
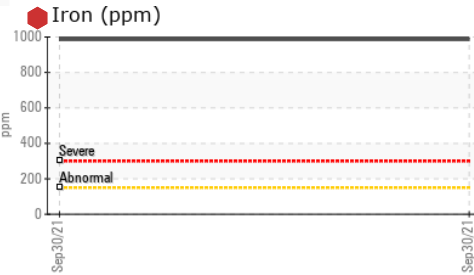
# OIL ANALYSIS REPORT



FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 143	<b>135</b>	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			no image	no image	no image
Bottom			no image	no image	no image

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LH0200476 **Received** : 29 Nov 2021  
**Lab Number** : 05411459 **Diagnosed** : 01 Dec 2021  
**Unique Number** : 9760647 **Diagnostician** : Don Baldrige  
**Test Package** : MOBCE

**FINKBINER EQUIPMENT CO.**  
 15 W 400 N FRONTAGE RD  
 BURR RIDGE, IL  
 US 60527  
 Contact: DON FITZGERALD  
 dfitzgerald@finkbiner.com  
 T: (815)546-8991  
 F: (630)654-3792

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)