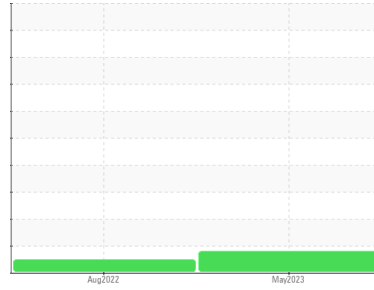


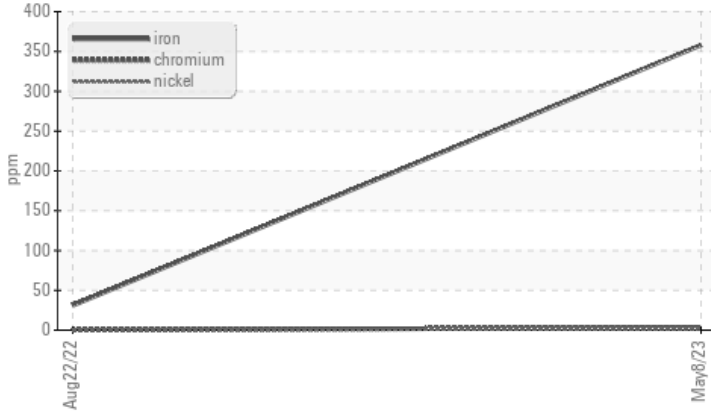


Machine Id
LIEBHERR HS885HD 184713
 Component
1 Winch
 Fluid
LIEBHERR GEAR BASIC 90 LS (5 GAL)



COMPONENT CONDITION SUMMARY

▲ Ferrous Alloys



RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	NORMAL	---
Iron	ppm	ASTM D5185m	>150	▲ 358	31	---

Customer Id: LEC0033
 Sample No.: LH0257975
 Lab Number: 05861533
 Test Package: CONST



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

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

22 Aug 2022 Diag: Angela Borella

NORMAL



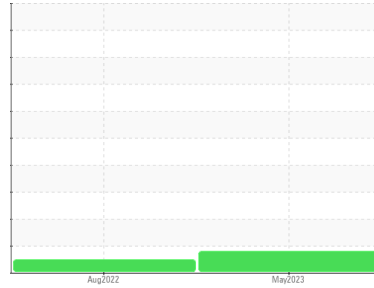
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

view report





Machine Id
LIEBHERR HS885HD 184713
 Component
1 Winch
 Fluid
LIEBHERR GEAR BASIC 90 LS (5 GAL)



DIAGNOSIS

▲ Recommendation
 The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

▲ 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		LH0257975	LHMC119863	---
Sample Date	Client Info		08 May 2023	22 Aug 2022	---
Machine Age	hrs	Client Info	10527	9000	---
Oil Age	hrs	Client Info	500	30	---
Oil Changed	Client Info		Changed	Changed	---
Sample Status			ABNORMAL	NORMAL	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >150	▲ 358	31	---
Chromium	ppm	ASTM D5185m >10	3	0	---
Nickel	ppm	ASTM D5185m >10	2	0	---
Titanium	ppm	ASTM D5185m	<1	0	---
Silver	ppm	ASTM D5185m	0	<1	---
Aluminum	ppm	ASTM D5185m >5	1	<1	---
Lead	ppm	ASTM D5185m >15	0	0	---
Copper	ppm	ASTM D5185m >80	3	<1	---
Tin	ppm	ASTM D5185m	0	0	---
Vanadium	ppm	ASTM D5185m	0	0	---
Cadmium	ppm	ASTM D5185m	0	0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	111	38	---
Barium	ppm	ASTM D5185m 0	0	<1	---
Molybdenum	ppm	ASTM D5185m 0	<1	0	---
Manganese	ppm	ASTM D5185m 0	2	<1	---
Magnesium	ppm	ASTM D5185m <1	4	0	---
Calcium	ppm	ASTM D5185m <1	24	19	---
Phosphorus	ppm	ASTM D5185m 2143	1131	956	---
Zinc	ppm	ASTM D5185m <1	60	23	---
Sulfur	ppm	ASTM D5185m 23468	26846	21194	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	7	2	---
Sodium	ppm	ASTM D5185m	<1	<1	---
Potassium	ppm	ASTM D5185m >20	2	0	---

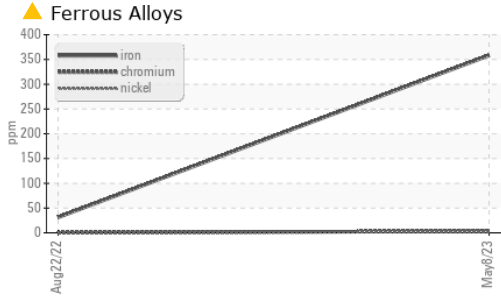
VISUAL

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

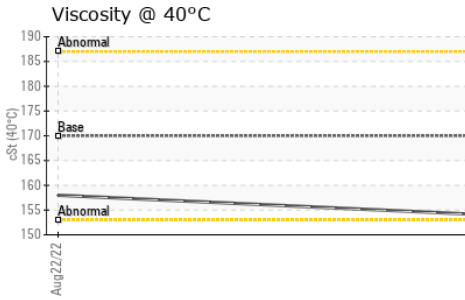
FLUID PROPERTIES

	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 170	154	158	---

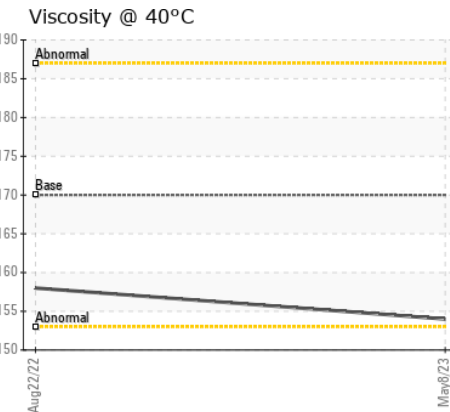
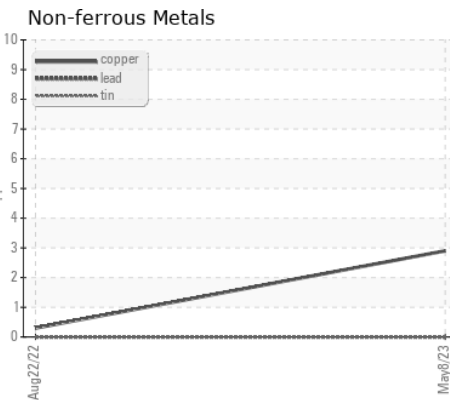
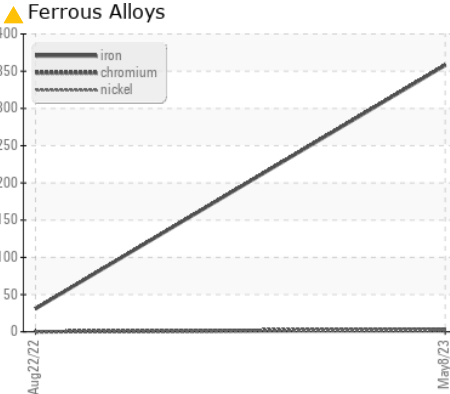
OIL ANALYSIS REPORT



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. : LH0257975 **Received** : 31 May 2023
Lab Number : **05861533** **Diagnosed** : 02 Jun 2023
Unique Number : 10495998 **Diagnostician** : Jonathan Hester
Test Package : CONST

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)