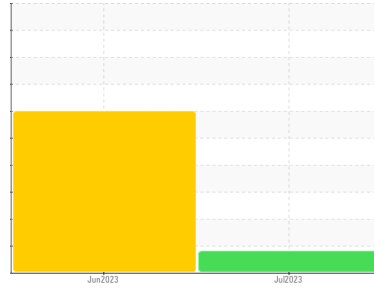




PROBLEM SUMMARY

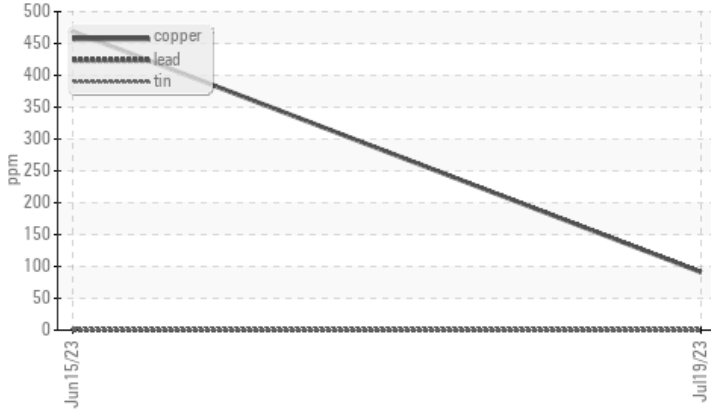
Sample Rating Trend



Machine Id
40302
 Component
Splitter Box
 Fluid
LIEBHERR MOTOROIL 5W-30 LOW ASH (--- QTS)

COMPONENT CONDITION SUMMARY

▲ Non-ferrous Metals



RECOMMENDATION

No corrective action is recommended at this time.
 Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status	ABNORMAL	SEVERE	---
Copper	▲ 91	◆ 469	---

Customer Id: MSCDURLH
 Sample No.: WC0810064
 Lab Number: 05904625
 Test Package: CONST



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

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

15 Jun 2023 Diag: Don Baldrige

WEAR



The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Bearing and/or bushing wear is indicated. All other metal levels are typical for a new component breaking in. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

view report

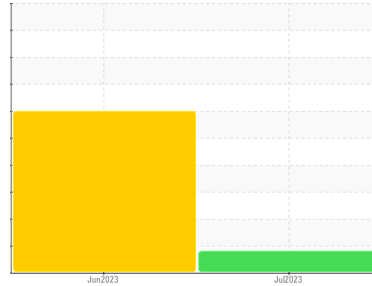




OIL ANALYSIS REPORT

Sample Rating Trend

WEAR



Machine Id
40302

Component
Splitter Box

Fluid
LIEBHERR MOTOROIL 5W-30 LOW ASH (--- QTS)

DIAGNOSIS

▲ Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

▲ Wear

The copper level has decreased, but is still abnormal. All other component wear rates are normal.

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		WC0810064	WC0786466	---
Sample Date	Client Info		19 Jul 2023	15 Jun 2023	---
Machine Age	hrs	Client Info	0	618	---
Oil Age	hrs	Client Info	0	618	---
Oil Changed	Client Info		Not Chngd	Changed	---
Sample Status			ABNORMAL	SEVERE	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >325	5	15	---
Chromium	ppm	ASTM D5185m >5	0	<1	---
Nickel	ppm	ASTM D5185m >10	<1	0	---
Titanium	ppm	ASTM D5185m	<1	<1	---
Silver	ppm	ASTM D5185m	0	0	---
Aluminum	ppm	ASTM D5185m >5	<1	4	---
Lead	ppm	ASTM D5185m	<1	0	---
Copper	ppm	ASTM D5185m >30	▲ 91	469	---
Tin	ppm	ASTM D5185m	<1	1	---
Vanadium	ppm	ASTM D5185m	0	0	---
Cadmium	ppm	ASTM D5185m	0	0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 2	107	92	---
Barium	ppm	ASTM D5185m 0	5	26	---
Molybdenum	ppm	ASTM D5185m <1	4	36	---
Manganese	ppm	ASTM D5185m <1	1	4	---
Magnesium	ppm	ASTM D5185m 12	698	912	---
Calcium	ppm	ASTM D5185m 2224	1362	1340	---
Phosphorus	ppm	ASTM D5185m 635	732	759	---
Zinc	ppm	ASTM D5185m 718	825	911	---
Sulfur	ppm	ASTM D5185m 1694	3214	3359	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	6	13	---
Sodium	ppm	ASTM D5185m	0	6	---
Potassium	ppm	ASTM D5185m >20	4	2	---

VISUAL

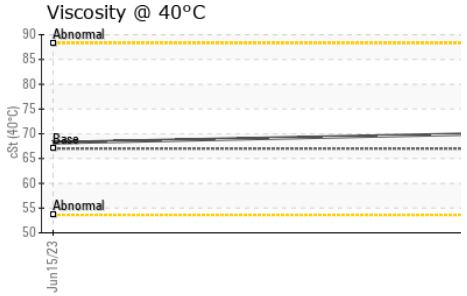
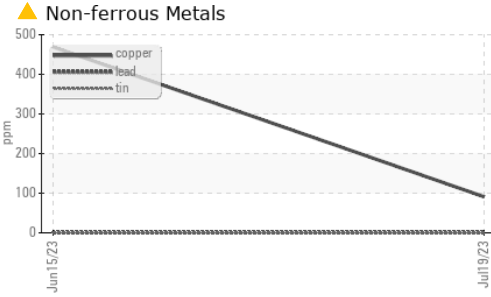
	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual NONE	NONE	NONE	---
Precipitate	scalar	*Visual NONE	NONE	NONE	---
Silt	scalar	*Visual NONE	NONE	NONE	---
Debris	scalar	*Visual NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual NONE	NONE	NONE	---
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 67.0	70.0	68.2	---

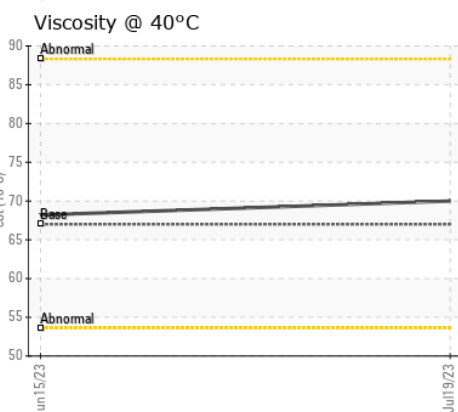
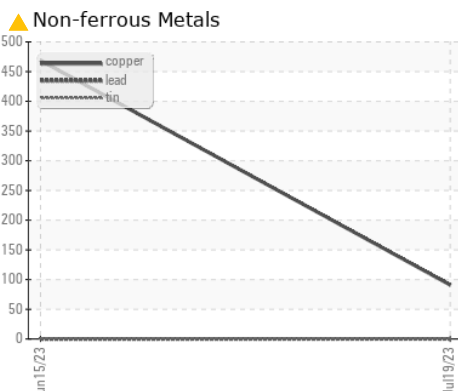
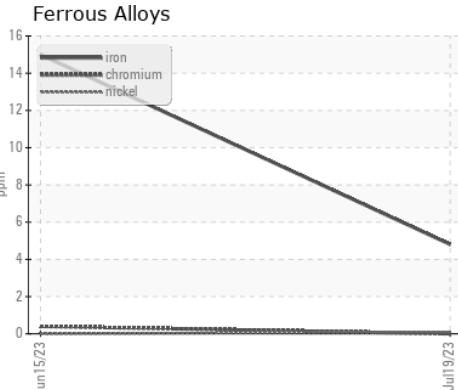


OIL ANALYSIS REPORT



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

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0810064
Lab Number : 05904625
Unique Number : 10565981
Test Package : CONST

SULLIVAN EASTERN INC-LIEBHERR
 2860 C SLATER RD
 MORRISVILLE, NC
 US 27560
 Contact: CHRIS CALTON

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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