



PROBLEM SUMMARY

Sample Rating Trend

WEAR

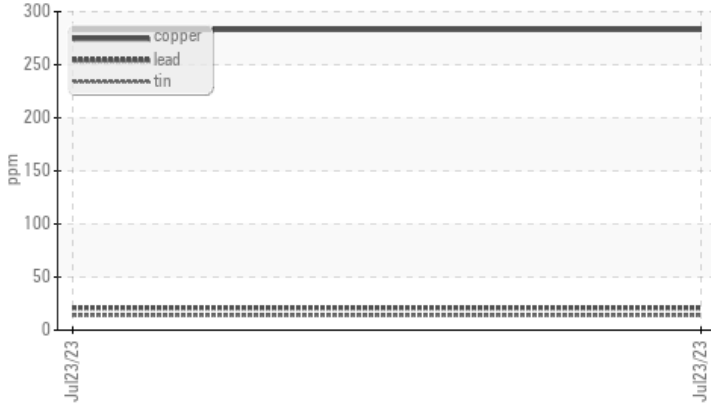


Area
[L431781]
 Machine Id
BRADEN 7501835
 Component
Main Winch
 Fluid
GEAR OIL ISO 220 (--- GAL)

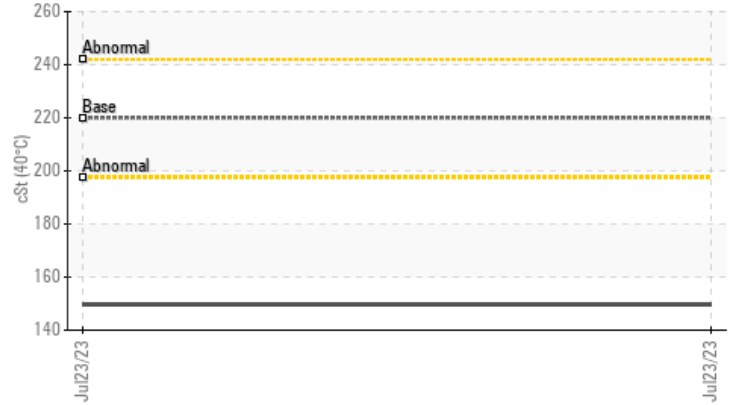


COMPONENT CONDITION SUMMARY

▲ Non-ferrous Metals



▲ Viscosity @ 40°C



RECOMMENDATION

We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	---	---
Copper	ppm	ASTM D5185m	>50	▲ 283	---	---
Tin	ppm	ASTM D5185m	>10	▲ 14	---	---
Visc @ 40°C	cSt	ASTM D445	220	▲ 149.7	---	---

Customer Id: SEALAF
 Sample No.: WC0798190
 Lab Number: 05922874
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Doug Bogart +1 (800)237-1369 x4016
dougb@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
Resample	---	---	?	We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend

WEAR



Area
[L431781]
 Machine Id
BRADEN 7501835
 Component
Main Winch
 Fluid
GEAR OIL ISO 220 (--- GAL)



DIAGNOSIS

Recommendation

We recommend an early resample to monitor this condition.

Wear

Bearing and/or bushing wear is indicated.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

Viscosity of sample indicates oil is within ISO 150 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC0798190	---	---
Sample Date	Client Info	23 Jul 2023	---	---
Machine Age	hrs Client Info	0	---	---
Oil Age	hrs Client Info	0	---	---
Oil Changed	Client Info	Changed	---	---
Sample Status		ABNORMAL	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185m	>150	99	---	---
Chromium ppm ASTM D5185m	>10	<1	---	---
Nickel ppm ASTM D5185m	>10	1	---	---
Titanium ppm ASTM D5185m		<1	---	---
Silver ppm ASTM D5185m		0	---	---
Aluminum ppm ASTM D5185m	>25	3	---	---
Lead ppm ASTM D5185m	>100	21	---	---
Copper ppm ASTM D5185m	>50	▲ 283	---	---
Tin ppm ASTM D5185m	>10	▲ 14	---	---
Vanadium ppm ASTM D5185m		<1	---	---
Cadmium ppm ASTM D5185m		0	---	---

ADDITIVES

method	limit/base	current	history1	history2
Boron ppm ASTM D5185m	50	4	---	---
Barium ppm ASTM D5185m	15	0	---	---
Molybdenum ppm ASTM D5185m	15	0	---	---
Manganese ppm ASTM D5185m		1	---	---
Magnesium ppm ASTM D5185m	50	0	---	---
Calcium ppm ASTM D5185m	50	20	---	---
Phosphorus ppm ASTM D5185m	350	272	---	---
Zinc ppm ASTM D5185m	100	120	---	---
Sulfur ppm ASTM D5185m	12500	7547	---	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185m	>50	11	---	---
Sodium ppm ASTM D5185m		1	---	---
Potassium ppm ASTM D5185m	>20	0	---	---

FLUID DEGRADATION

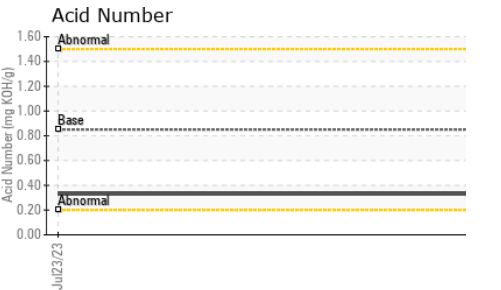
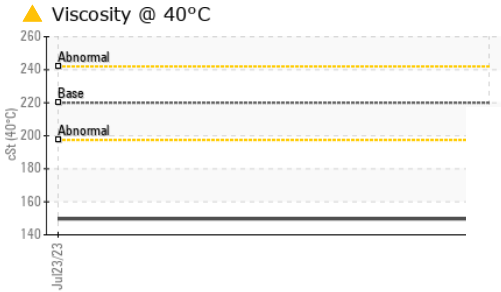
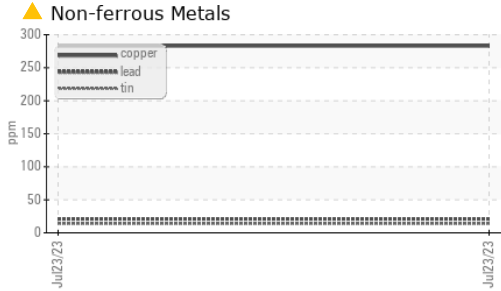
method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g ASTM D8045	0.85	0.33	---	---

VISUAL

method	limit/base	current	history1	history2
White Metal scalar *Visual	NONE	MODER	---	---
Yellow Metal scalar *Visual	NONE	NONE	---	---
Precipitate scalar *Visual	NONE	NONE	---	---
Silt scalar *Visual	NONE	NONE	---	---
Debris scalar *Visual	NONE	NONE	---	---
Sand/Dirt scalar *Visual	NONE	NONE	---	---
Appearance scalar *Visual	NORML	NORML	---	---
Odor scalar *Visual	NORML	NORML	---	---
Emulsified Water scalar *Visual	>0.1	NEG	---	---
Free Water scalar *Visual		NEG	---	---



OIL ANALYSIS REPORT



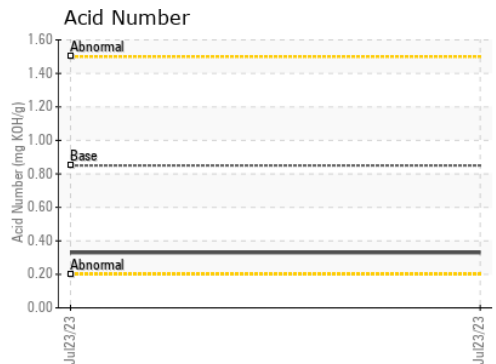
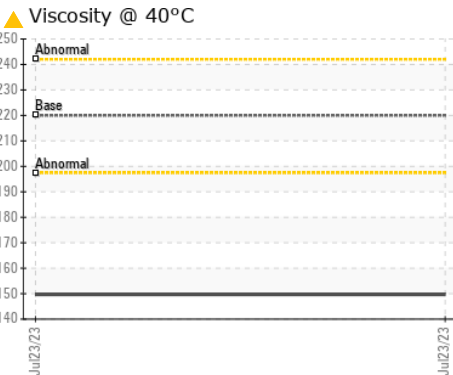
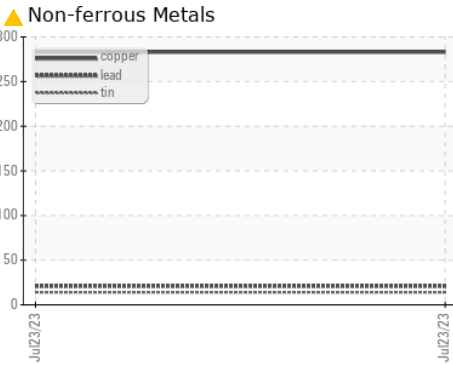
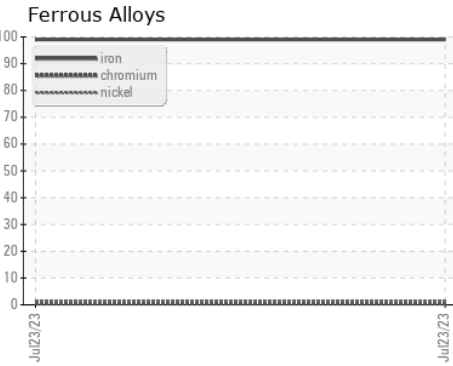
FLUID PROPERTIES

method	limit/base	current	history1	history2
Visc @ 40°C	cSt ASTM D445 220	▲ 149.7	---	---

SAMPLE IMAGES

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

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : WC0798190 Received : 11 Aug 2023
 Lab Number : 05922874 Diagnosed : 17 Aug 2023
 Unique Number : 10602821 Diagnostician : Doug Bogart
 Test Package : IND 2

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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