



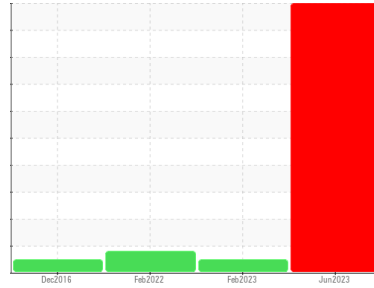
PROBLEM SUMMARY

Sample Rating Trend

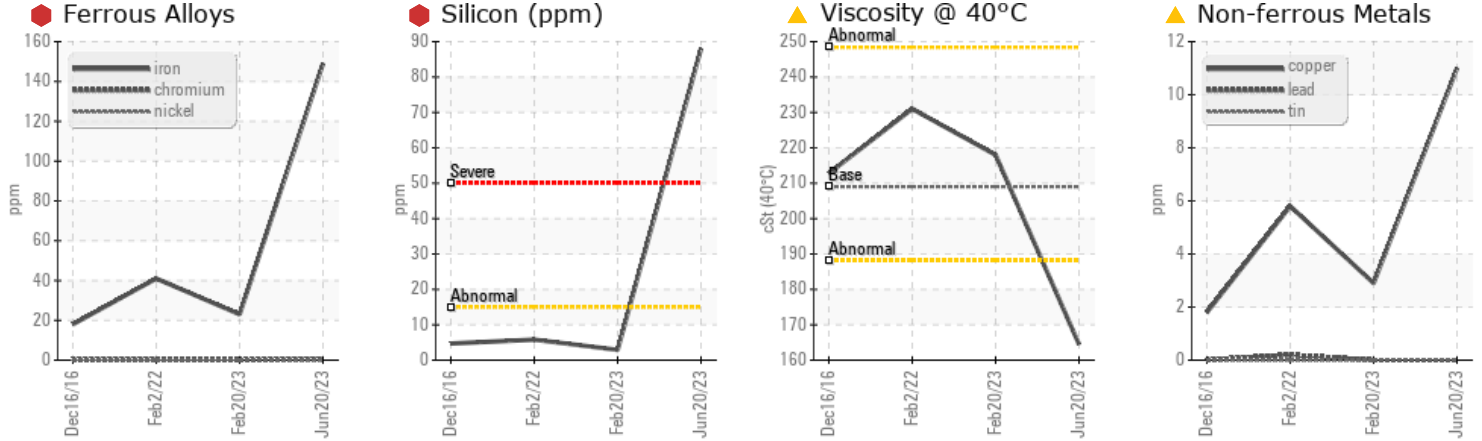
WEAR



Area
ST37H
 Machine Id
BRADEN CH175A-23120-01P-1 (S/N 9603089)
 Component
Boom Hoist
 Fluid
CHEVRON MEROPA 220 (--- GAL)



COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. 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				SEVERE	NORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>20	149	23	41
Copper	ppm	ASTM D5185m	>20	11	3	6
Silicon	ppm	ASTM D5185m	>15	88	3	6
White Metal	scalar	*Visual	NONE	MODER	VLITE	LIGHT
Debris	scalar	*Visual	NONE	MODER	LIGHT	NONE
Visc @ 40°C	cSt	ASTM D445	209	164.5	218	231

Customer Id: SEALAF
 Sample No.: WC0785746
 Lab Number: 05900086
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
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jhester@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
Inspect Wear Source	---	---	?	We advise that you inspect for the source(s) of wear.
Resample	---	---	?	We recommend an early resample to monitor this condition.
Check Dirt Access	---	---	?	We advise that you check all areas where dirt can enter the system.

HISTORICAL DIAGNOSIS

20 Feb 2023 Diag: Jonathan Hester

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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



02 Feb 2022 Diag: Don Baldrige

WEAR



The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. Gear wear is indicated. All other component wear rates are normal. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



16 Dec 2016 Diag: Don Baldrige

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the component. The condition of the oil is acceptable for the time in service.

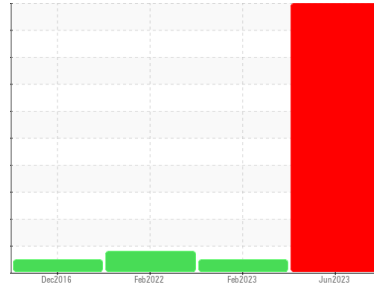
view report





OIL ANALYSIS REPORT

Sample Rating Trend



Area
ST37H
 Machine Id
BRADEN CH175A-23120-01P-1 (S/N 9603089)
 Component
Boom Hoist
 Fluid
CHEVRON MEROPA 220 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

Wear

The iron level is severe. Moderate concentration of visible metal present.

Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. Moderate concentration of visible dirt/debris present in the oil.

Fluid Condition

The oil viscosity is lower than normal. The AN level is acceptable for this fluid.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0785746	WC0712801	WC0675850
Sample Date	Client Info		20 Jun 2023	20 Feb 2023	02 Feb 2022
Machine Age	yrs	Client Info	0	0	0
Oil Age	yrs	Client Info	1	0	1
Oil Changed	Client Info		Changed	Not Changd	Changed
Sample Status			SEVERE	NORMAL	ABNORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	149	23	41
Chromium	ppm	ASTM D5185m >20	<1	0	<1
Nickel	ppm	ASTM D5185m >20	0	0	0
Titanium	ppm	ASTM D5185m	1	0	0
Silver	ppm	ASTM D5185m	0	0	<1
Aluminum	ppm	ASTM D5185m >20	4	0	1
Lead	ppm	ASTM D5185m >20	0	0	<1
Copper	ppm	ASTM D5185m >20	11	3	6
Tin	ppm	ASTM D5185m >20	0	0	0
Antimony	ppm	ASTM D5185m	---	---	---
Vanadium	ppm	ASTM D5185m	<1	<1	0
Cadmium	ppm	ASTM D5185m	0	0	<1

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 40	12	8	8
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	0	5	<1
Manganese	ppm	ASTM D5185m	2	1	1
Magnesium	ppm	ASTM D5185m	2	16	1
Calcium	ppm	ASTM D5185m	19	4	40
Phosphorus	ppm	ASTM D5185m 270	294	271	259
Zinc	ppm	ASTM D5185m	262	4	64
Sulfur	ppm	ASTM D5185m 8600	6690	8446	7038

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	88	3	6
Sodium	ppm	ASTM D5185m	3	<1	2
Potassium	ppm	ASTM D5185m >20	1	<1	1

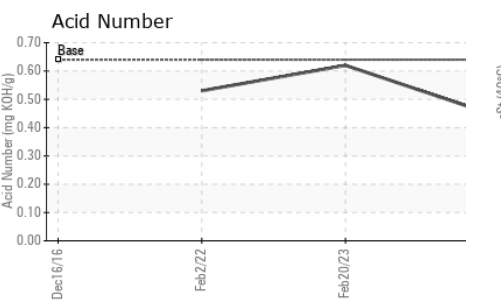
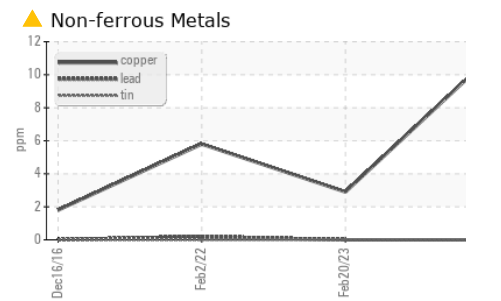
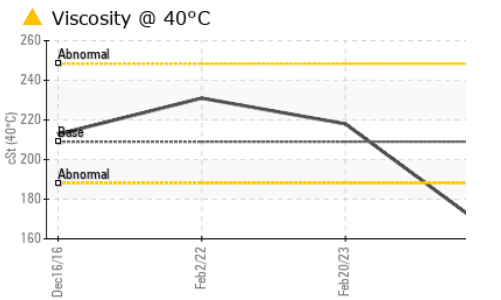
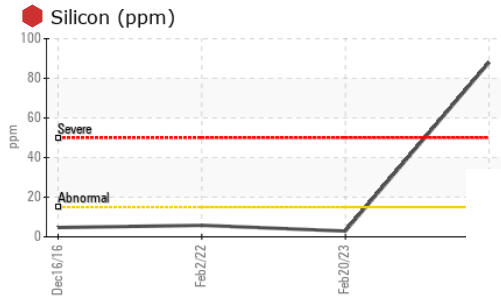
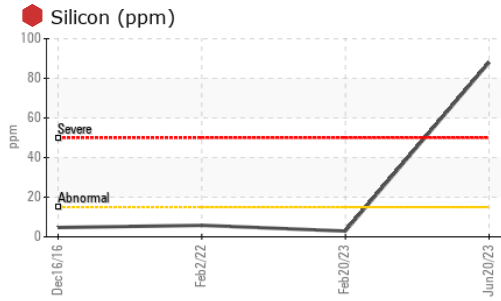
FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.64	0.45	0.62	0.53

VISUAL

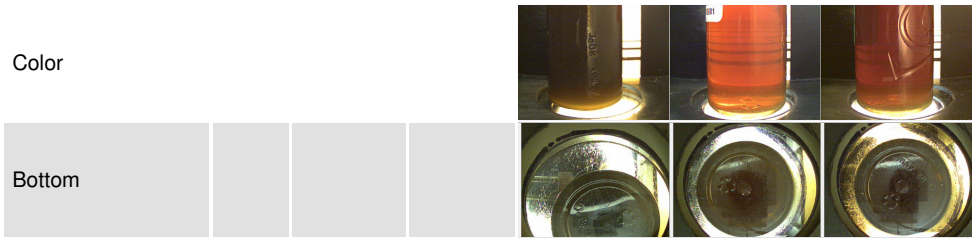
	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	MODER	VLITE	LIGHT
Yellow Metal	scalar	*Visual NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual NONE	NONE	NONE	NONE
Silt	scalar	*Visual NONE	NONE	NONE	NONE
Debris	scalar	*Visual NONE	MODER	LIGHT	NONE
Sand/Dirt	scalar	*Visual NONE	NONE	NONE	NONE
Appearance	scalar	*Visual NORML	NORML	NORML	NORML
Odor	scalar	*Visual NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual >0.05	NEG	NEG	NEG
Free Water	scalar	*Visual	NEG	NEG	NEG

OIL ANALYSIS REPORT

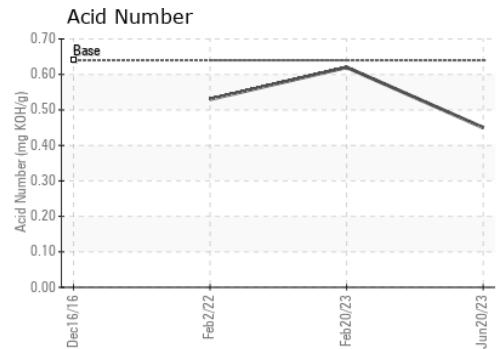
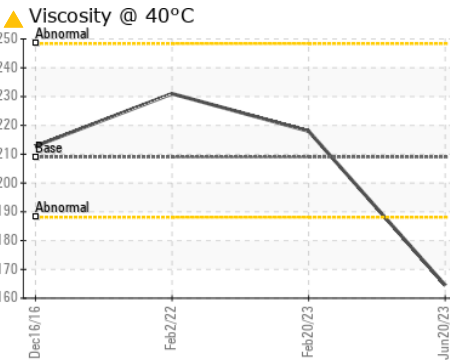
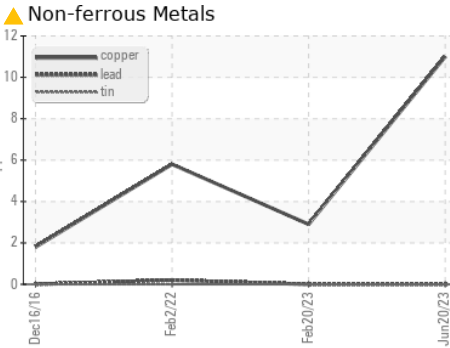
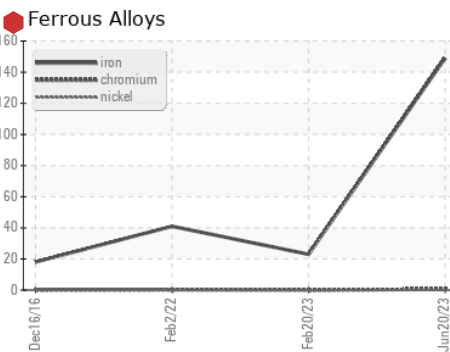


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	209	▲ 164.5	218	231

SAMPLE IMAGES		method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0785746 **Received** : 17 Jul 2023
Lab Number : 05900086 **Diagnosed** : 21 Jul 2023
Unique Number : 10561442 **Diagnostician** : Jonathan Hester
Test Package : IND 2

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Certificate L2367
 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)