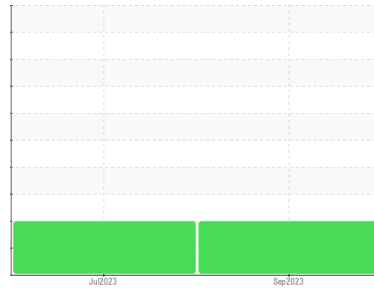




PROBLEM SUMMARY

Sample Rating Trend



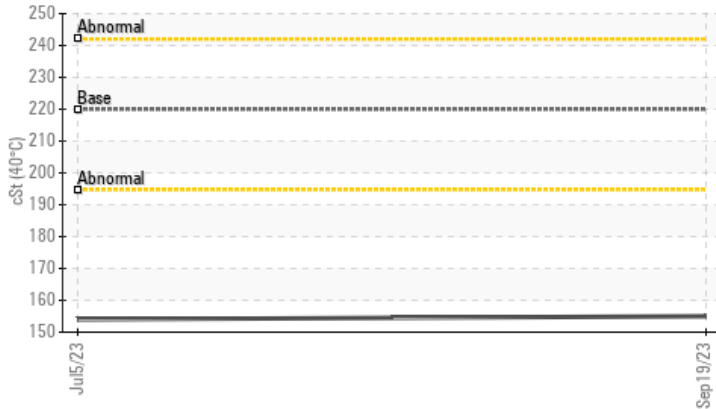
WEAR



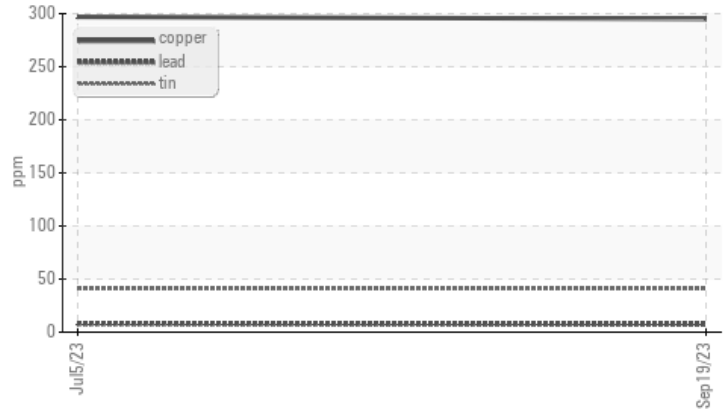
Machine Id
CLOVER SCREEN 120 #2
 Component
Gearbox
 Fluid
GEAR OIL ISO 220 (--- GAL)

COMPONENT CONDITION SUMMARY

▲ Viscosity @ 40°C



▲ Non-ferrous Metals



RECOMMENDATION

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	ABNORMAL	---
Copper	ppm	ASTM D5185(m)	>200	▲ 295	▲ 297	---
Tin	ppm	ASTM D5185(m)	>10	▲ 41	▲ 41	---
Visc @ 40°C	cSt	ASTM D7279(m)	220	▲ 155	▲ 154	---

Customer Id: CRDVIC
 Sample No.: WC0738316
 Lab Number: 02585915
 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Kevin Marson +1 (289)291-4644 x4644
Kevin.Marson@wearcheck.com

To change component or sample information:
 Gloria Gonzalez +1 (289)291-4643 x4643
gloria.gonzalez@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Fluid	---	---	?	We recommend that you drain the oil from the component if this has not already been done.
Resample	---	---	?	We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS

05 Jul 2023 Diag: Kevin Marson

WEAR



We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. Copper and tin ppm levels are abnormal. Bearing and/or bushing wear is indicated. There is no indication of any contamination in the oil. Viscosity of sample indicates oil is within SAE 50 range, advise investigate. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

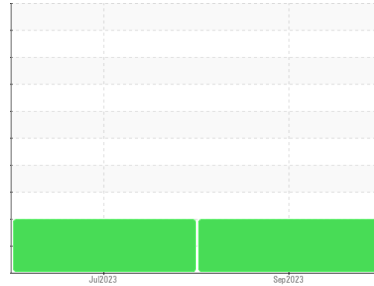
view report





OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Machine Id
CLOVER SCREEN 120 #2
 Component
Gearbox
 Fluid
GEAR OIL ISO 220 (--- GAL)

DIAGNOSIS

Recommendation

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

Wear

Copper and tin ppm levels are abnormal. 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 SAE 50 range, advise investigate. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0738316	WC0738280	---
Sample Date	Client Info		19 Sep 2023	05 Jul 2023	---
Machine Age	hrs	Client Info	0	0	---
Oil Age	hrs	Client Info	0	0	---
Oil Changed	Client Info		N/A	Not Changd	---
Sample Status			ABNORMAL	ABNORMAL	---

WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184*		0	0	---
Iron	ppm	ASTM D5185(m) >200	13	13	---
Chromium	ppm	ASTM D5185(m) >10	0	0	---
Nickel	ppm	ASTM D5185(m) >10	8	8	---
Titanium	ppm	ASTM D5185(m)	0	0	---
Silver	ppm	ASTM D5185(m)	0	0	---
Aluminum	ppm	ASTM D5185(m) >25	0	<1	---
Lead	ppm	ASTM D5185(m) >50	7	8	---
Copper	ppm	ASTM D5185(m) >200	▲ 295	▲ 297	---
Tin	ppm	ASTM D5185(m) >10	▲ 41	▲ 41	---
Antimony	ppm	ASTM D5185(m) >5	0	0	---
Vanadium	ppm	ASTM D5185(m)	0	0	---
Beryllium	ppm	ASTM D5185(m)	0	0	---
Cadmium	ppm	ASTM D5185(m)	0	0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 50	<1	<1	---
Barium	ppm	ASTM D5185(m) 15	<1	0	---
Molybdenum	ppm	ASTM D5185(m) 15	0	0	---
Manganese	ppm	ASTM D5185(m)	<1	<1	---
Magnesium	ppm	ASTM D5185(m) 50	2	2	---
Calcium	ppm	ASTM D5185(m) 50	674	675	---
Phosphorus	ppm	ASTM D5185(m) 350	424	445	---
Zinc	ppm	ASTM D5185(m) 100	12	13	---
Sulfur	ppm	ASTM D5185(m) 12500	446	532	---
Lithium	ppm	ASTM D5185(m)	<1	<1	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >50	15	14	---
Sodium	ppm	ASTM D5185(m)	4	4	---
Potassium	ppm	ASTM D5185(m) >20	<1	<1	---

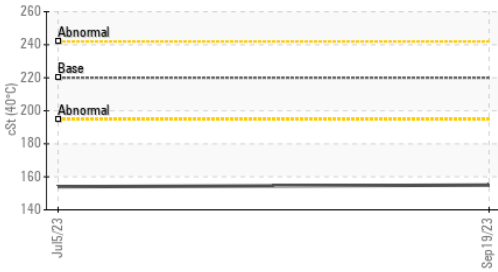
VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	Visual* NONE	NONE	VLITE	---
Yellow Metal	scalar	Visual* NONE	NONE	NONE	---
Precipitate	scalar	Visual* NONE	NONE	NONE	---
Silt	scalar	Visual* NONE	NONE	NONE	---
Debris	scalar	Visual* NONE	NONE	VLITE	---
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	---

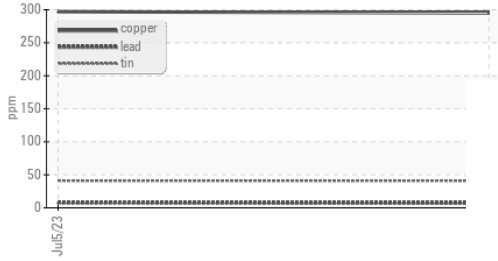


OIL ANALYSIS REPORT

▲ Viscosity @ 40°C



▲ Non-ferrous Metals



PQ



FLUID PROPERTIES

Property	Method	Limit/Base	Current	History1	History2
Visc @ 40°C	cSt	ASTM D7279(m)	▲ 155	▲ 154	---

SAMPLE IMAGES

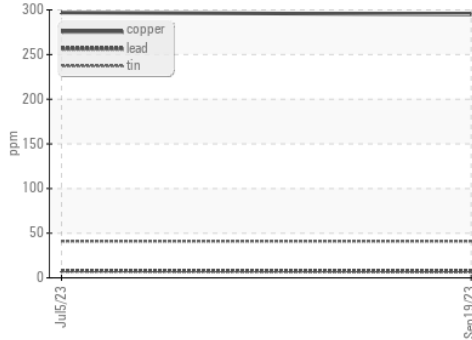
Property	Method	Limit/Base	Current	History1	History2
Color					no image
Bottom					no image

GRAPHS

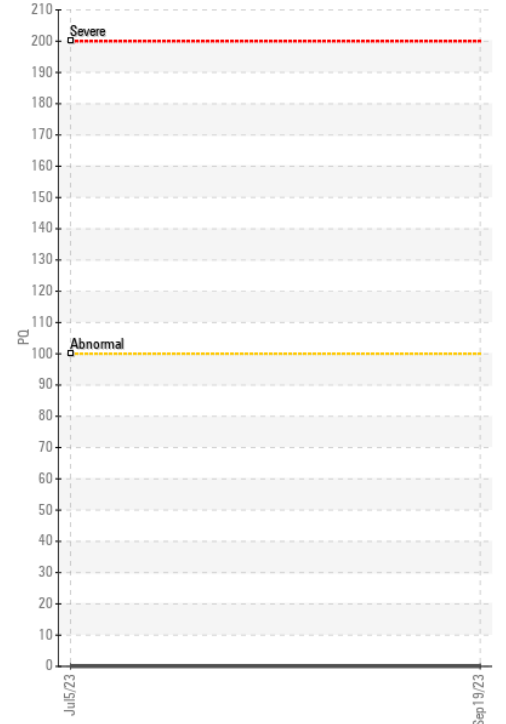
Ferrous Alloys



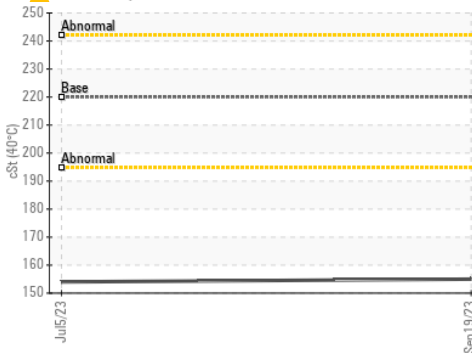
Non-ferrous Metals



PQ



▲ Viscosity @ 40°C



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0738316 **Received** : 28 Sep 2023
Lab Number : 02585915 **Diagnosed** : 28 Sep 2023
Unique Number : 5654981 **Diagnostician** : Kevin Marson
Test Package : FLEET (Additional Tests: PQ)

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.

CRD, Integrated Water Services
 337 Victoria View Road
 Victoria, BC
 CA V9A 3Z3
 Contact: Maintenance Planning
 maintenanceplanning@crd.bc.ca

T:
F: