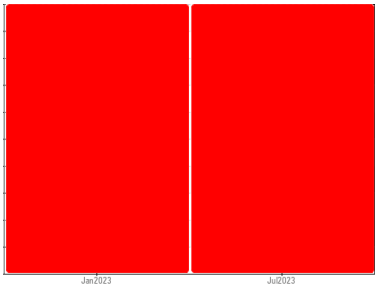
PROBLEM SUMMARY

Sample Rating Trend

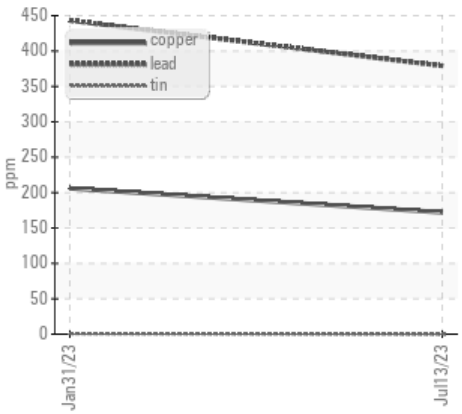


VISUAL METAL

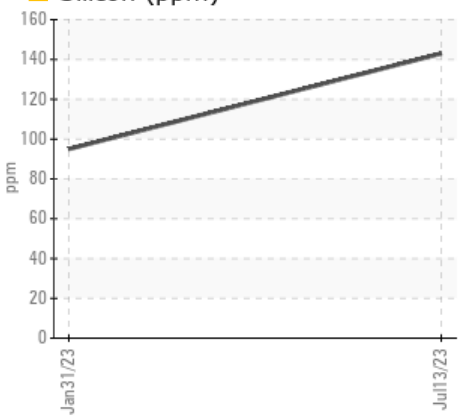
Machine Id
COOLANT
Component
Cutting Fluid
Fluid
PPC CUT (6000 GAL)

COMPONENT CONDITION SUMMARY

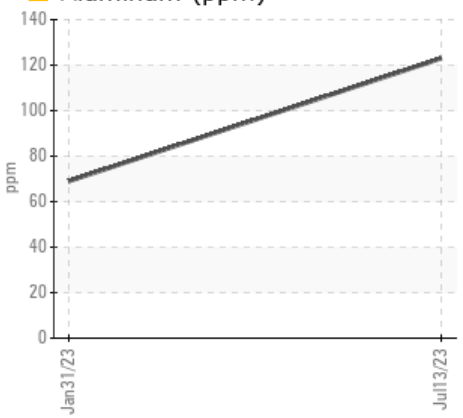
▲ Non-ferrous Metals



▲ Silicon (ppm)



▲ Aluminum (ppm)



RECOMMENDATION

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. Please submit a sample of the new (unused) oil to establish a baseline.

PROBLEMATIC TEST RESULTS

Sample Status				**SEVERE**	SEVERE	---
Aluminum	ppm	ASTM D6130		▲ **123**	▲ 69	---
Lead	ppm	ASTM D6130		▲ **379**	▲ 443	---
Copper	ppm	ASTM D6130		▲ **172**	▲ 206	---
Silicon	ppm	ASTM D6130		▲ **143**	▲ 95	---
White Metal	scalar	*Visual	NONE	⬢ **HEAVY**	⬢ MODER	---

Customer Id: PPCEAS
Sample No.: WC0788793
Lab Number: 05902694
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
Change Filter	---	---	?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.
Resample	---	---	?	We recommend an early resample to monitor this condition. Please submit a sample of the new (unused) oil to establish a baseline.
Filter Fluid	---	---	?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.

HISTORICAL DIAGNOSIS

31 Jan 2023 Diag: Doug Bogart

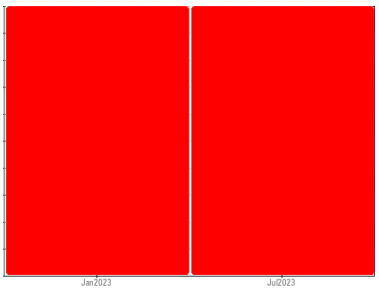
VISUAL METAL

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. Please submit a sample of the new (unused) oil to establish a baseline.The metal levels are abnormal. Moderate concentration of visible metal present. Elemental level of silicon (Si) above normal indicating ingress of seal material. The AN level is acceptable for this fluid.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



VISUAL METAL

Machine Id
COOLANT
Component
Cutting Fluid
Fluid
PPC CUT (6000 GAL)

DIAGNOSIS

Recommendation
We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. Please submit a sample of the new (unused) oil to establish a baseline.

Wear
The metal levels are abnormal. Heavy concentration of visible metal present.

Contamination
Elemental level of silicon (Si) above normal indicating ingress of seal material.

Fluid Condition
The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0788793**	WC0661351	---
Sample Date		Client Info		**13 Jul 2023**	31 Jan 2023	---
Machine Age	mths	Client Info		**0**	0	---
Oil Age	mths	Client Info		**11**	11	---
Oil Changed		Client Info		**N/A**	Not Changd	---
Sample Status				**SEVERE**	SEVERE	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D6130		**12**	8	---
Chromium	ppm	ASTM D6130		**0**	0	---
Nickel	ppm	ASTM D6130		**0**	0	---
Titanium	ppm	ASTM D6130		**<1**	<1	---
Silver	ppm	ASTM D6130		**0**	0	---
Aluminum	ppm	ASTM D6130		▲ **123**	▲ 69	---
Lead	ppm	ASTM D6130		▲ **379**	▲ 443	---
Copper	ppm	ASTM D6130		▲ **172**	▲ 206	---
Tin	ppm	ASTM D6130		**0**	<1	---
Vanadium	ppm	ASTM D6130		**<1**	0	---
Cadmium	ppm	ASTM D6130		**0**	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D6130		**0**	0	---
Barium	ppm	ASTM D6130		**0**	0	---
Molybdenum	ppm	ASTM D6130		**2**	1	---
Manganese	ppm	ASTM D6130		**<1**	<1	---
Magnesium	ppm	ASTM D6130		**27**	11	---
Calcium	ppm	ASTM D6130		**91**	68	---
Phosphorus	ppm	ASTM D6130		**325**	314	---
Zinc	ppm	ASTM D6130		**280**	228	---
Sulfur	ppm	ASTM D6130		**1645**	1904	---

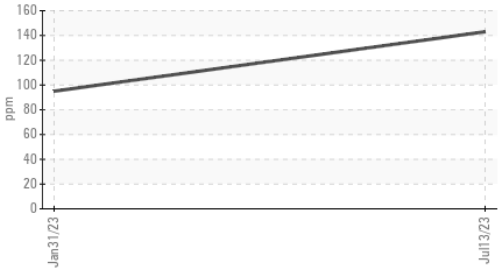
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D6130		▲ **143**	▲ 95	---
Sodium	ppm	ASTM D6130		**38**	34	---
Potassium	ppm	ASTM D6130	>20	**10**	9	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.173**	0.17	---

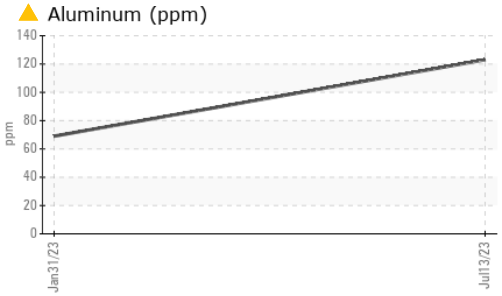
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	● **HEAVY**	● MODER	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	---
Silt	scalar	*Visual	NONE	**NONE**	NONE	---
Debris	scalar	*Visual	NONE	**NONE**	NONE	---
Sand/Dirt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

OIL ANALYSIS REPORT

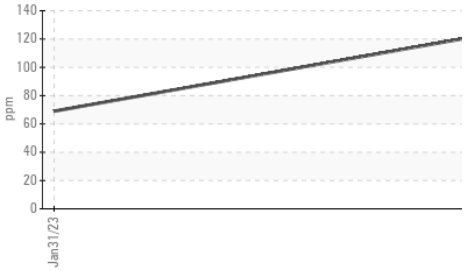
Silicon (ppm)



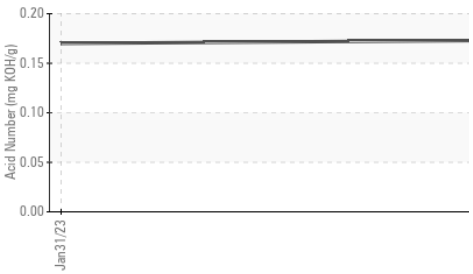
Aluminum (ppm)



Aluminum (ppm)



Acid Number



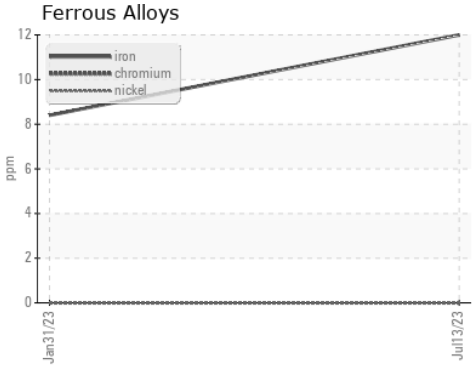
Viscosity @ 40°C

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		**43.76**	43.54	---

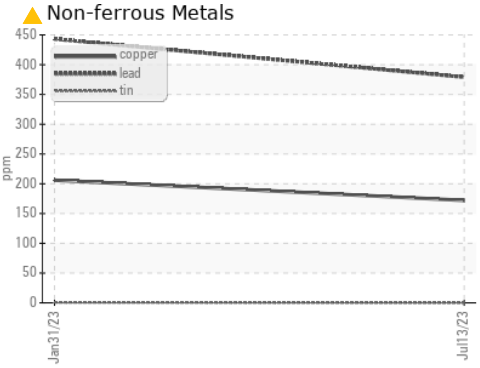
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					no image
Bottom					no image

GRAPHS

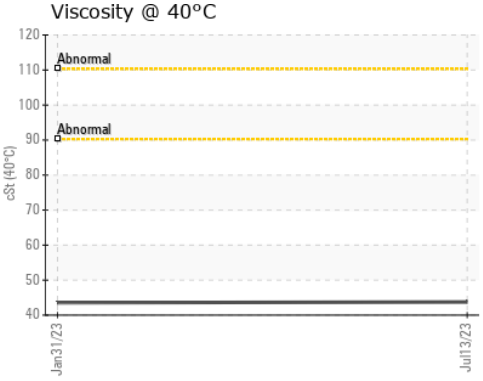
Ferrous Alloys



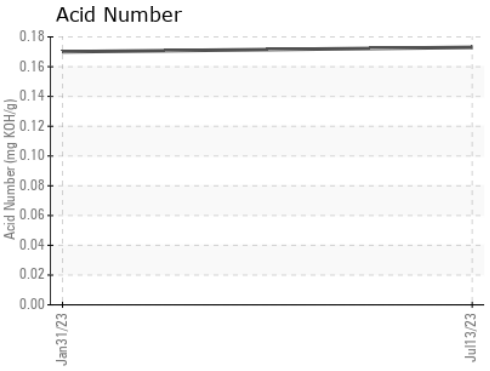
Non-ferrous Metals



Viscosity @ 40°C



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0788793
Lab Number : 05902694
Unique Number : 10564050
Test Package : IND 2

Received : 19 Jul 2023
Diagnosed : 25 Jul 2023
Diagnostician : Doug Bogart

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)

PPC BROADBAND, INC
6176 E MOLLOY RD
EAST SYRACUSE, NY
US 13057
Contact: JIM DEVINE
jdevine@ppc-online.com
T: (315)431-7337
F: