

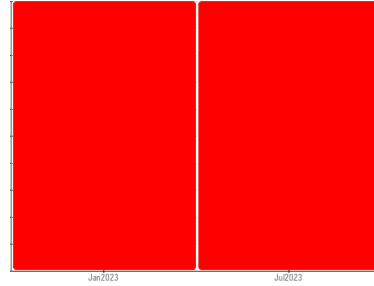


PROBLEM SUMMARY

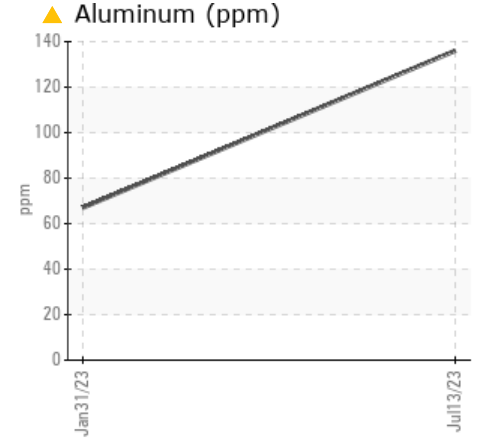
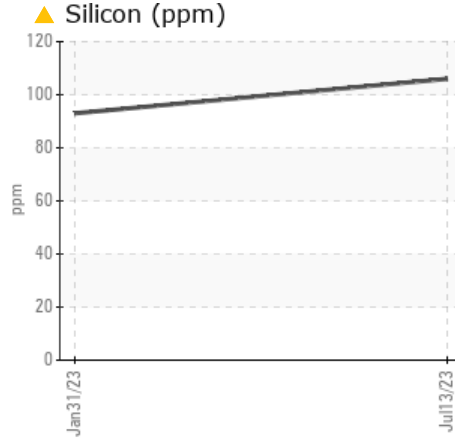
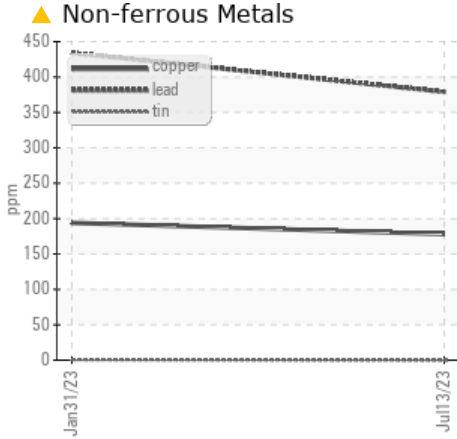
Sample Rating Trend

VISUAL METAL

Area
PPC CUT 32 SPECIAL
 Machine Id
LUBE COOLANT SYSTEM
 Component
Cutting Fluid
 Fluid
PPC CUT (6000 GAL)



COMPONENT CONDITION SUMMARY



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		▲ 136	▲ 67	---
Lead	ppm	ASTM D6130		▲ 379	▲ 434	---
Copper	ppm	ASTM D6130		▲ 178	▲ 194	---
Silicon	ppm	ASTM D6130		▲ 106	▲ 93	---
White Metal	scalar	*Visual	NONE	● HEAVY	● MODER	---

Customer Id: PPCEAS
 Sample No.: WC0788794
 Lab Number: 05902696
 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



The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Please submit a sample of the new (unused) oil to establish a baseline. The wear metal levels are abnormal. Moderate concentration of visible metal present. Elemental level of silicon (Si) above normal. The AN level is acceptable for this fluid.

view report





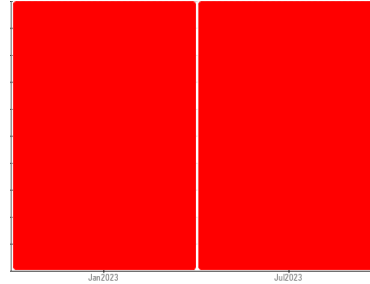
OIL ANALYSIS REPORT

Sample Rating Trend

VISUAL METAL

Area PPC CUT 32 SPECIAL Machine Id LUBE COOLANT SYSTEM

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			WC0788794	WC0661352	---
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			Not Chngd	Not Chngd	---
Sample Status				SEVERE	SEVERE	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D6130		13	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		▲ 136	▲ 67	---
Lead	ppm	ASTM D6130		▲ 379	▲ 434	---
Copper	ppm	ASTM D6130		▲ 178	▲ 194	---
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		1	1	---
Manganese	ppm	ASTM D6130		<1	<1	---
Magnesium	ppm	ASTM D6130		13	12	---
Calcium	ppm	ASTM D6130		77	68	---
Phosphorus	ppm	ASTM D6130		319	310	---
Zinc	ppm	ASTM D6130		281	232	---
Sulfur	ppm	ASTM D6130		1602	1936	---

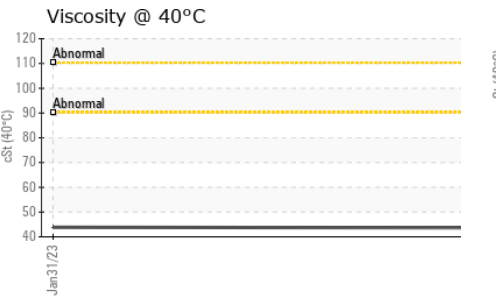
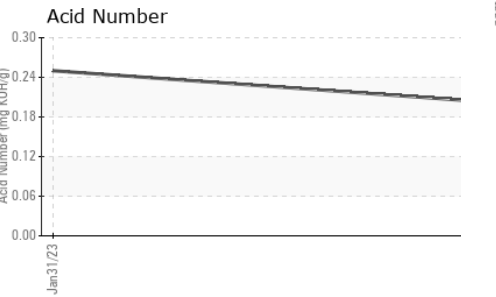
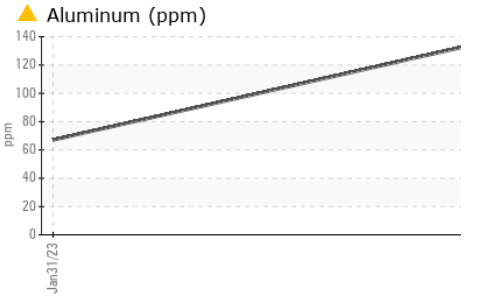
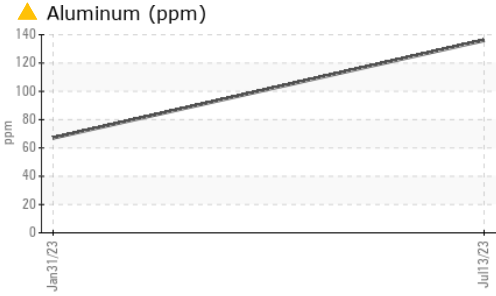
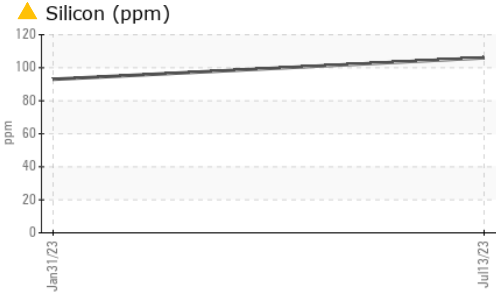
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D6130		▲ 106	▲ 93	---
Sodium	ppm	ASTM D6130		37	33	---
Potassium	ppm	ASTM D6130	>20	10	9	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.203	0.25	---

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

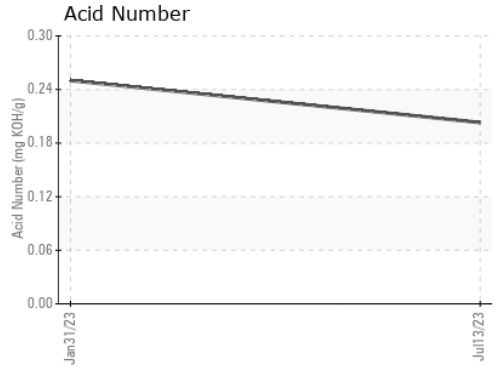
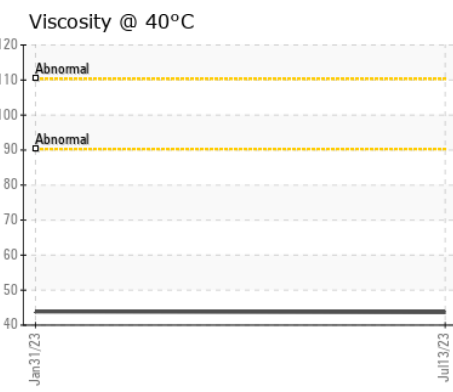
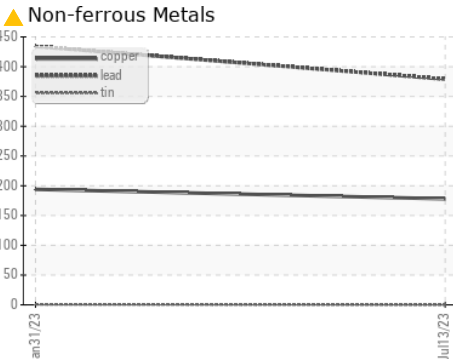
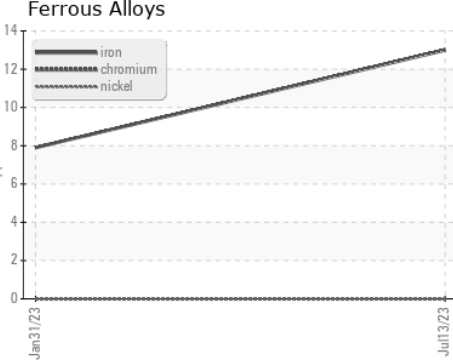


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		43.65	43.85	---

SAMPLE IMAGES		method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : WC0788794 Received : 19 Jul 2023
 Lab Number : 05902696 Diagnosed : 25 Jul 2023
 Unique Number : 10564052 Diagnostician : Doug Bogart
 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)