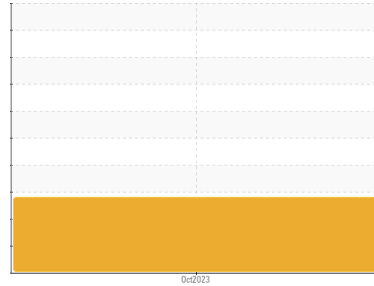




PROBLEM SUMMARY

Sample Rating Trend



WEAR



Machine Id

MP

Component

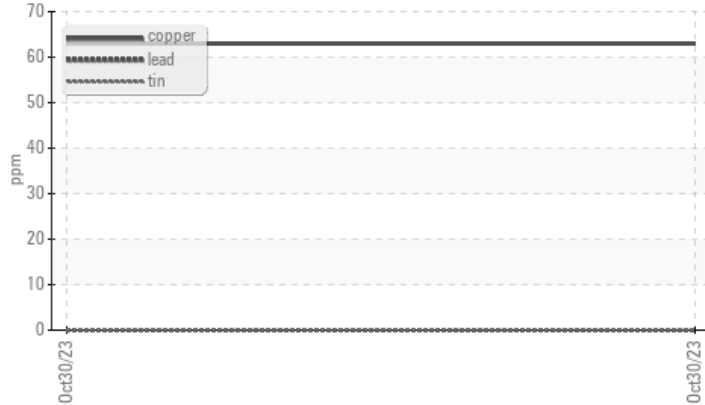
Hydraulic System

Fluid

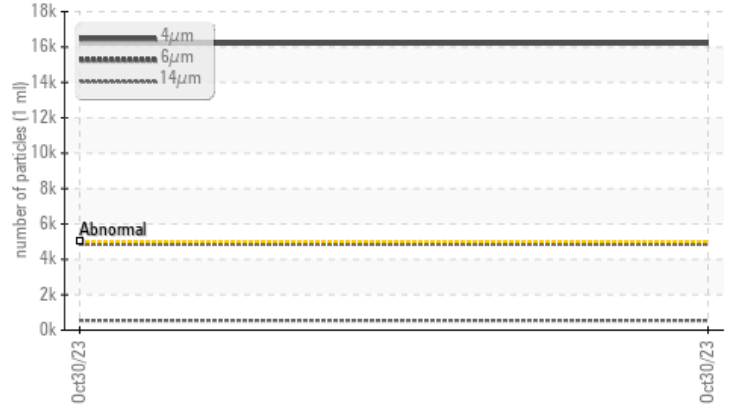
CASTROL HYSPIN AWS HYDRAULIC 46 (300 GAL)

COMPONENT CONDITION SUMMARY

▲ Non-ferrous Metals



▲ Particle Trend



RECOMMENDATION

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status			ABNORMAL	---	---
Copper	ppm	ASTM D5185m >20	▲ 63	---	---
Particles >4µm		ASTM D7647 >5000	▲ 16202	---	---
Particles >6µm		ASTM D7647 >1300	▲ 4910	---	---
Particles >14µm		ASTM D7647 >160	▲ 542	---	---
Particles >21µm		ASTM D7647 >40	▲ 144	---	---
Oil Cleanliness		ISO 4406 (c) >19/17/14	▲ 21/19/16	---	---

Customer Id: NEUBOS
Sample No.: WC05995550
Lab Number: 05995550
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
Jonathan Hester +1 919-379-4092 x4092
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
Change Filter	---	---	?	We recommend you service the filters on this component.
Resample	---	---	?	We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Machine Id

MP

Component

Hydraulic System

Fluid

CASTROL HYSPIN AWS HYDRAULIC 46 (300 GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

Wear

The copper level is abnormal. All other component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil.

Fluid Condition

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

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC05995550	---	---
Sample Date	Client Info		30 Oct 2023	---	---
Machine Age	hrs	Client Info	0	---	---
Oil Age	hrs	Client Info	0	---	---
Oil Changed	Client Info		N/A	---	---
Sample Status			ABNORMAL	---	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	---
Chromium	ppm	ASTM D5185m	>20	0	---
Nickel	ppm	ASTM D5185m	>20	0	---
Titanium	ppm	ASTM D5185m		0	---
Silver	ppm	ASTM D5185m		0	---
Aluminum	ppm	ASTM D5185m	>20	0	---
Lead	ppm	ASTM D5185m	>20	0	---
Copper	ppm	ASTM D5185m	>20	▲ 63	---
Tin	ppm	ASTM D5185m	>20	0	---
Vanadium	ppm	ASTM D5185m		0	---
Cadmium	ppm	ASTM D5185m		0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	---
Barium	ppm	ASTM D5185m		0	---
Molybdenum	ppm	ASTM D5185m		0	---
Manganese	ppm	ASTM D5185m		0	---
Magnesium	ppm	ASTM D5185m		1	---
Calcium	ppm	ASTM D5185m		45	---
Phosphorus	ppm	ASTM D5185m		253	---
Zinc	ppm	ASTM D5185m		383	---
Sulfur	ppm	ASTM D5185m		978	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	---
Sodium	ppm	ASTM D5185m		0	---
Potassium	ppm	ASTM D5185m	>20	<1	---

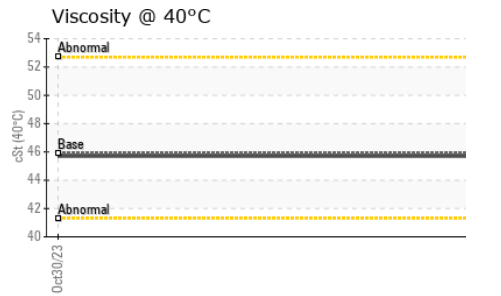
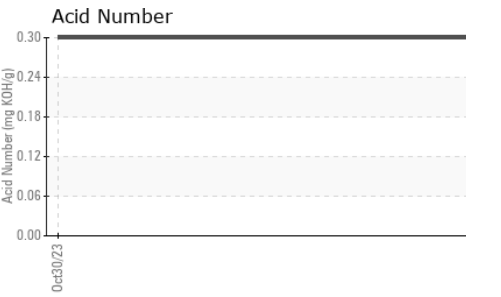
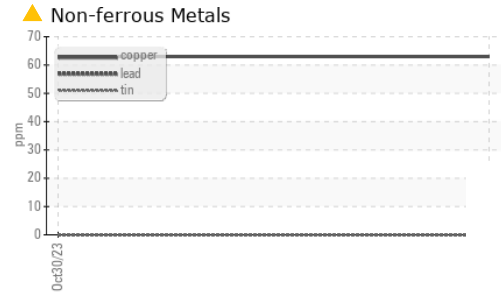
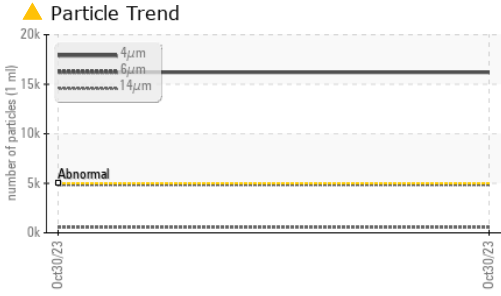
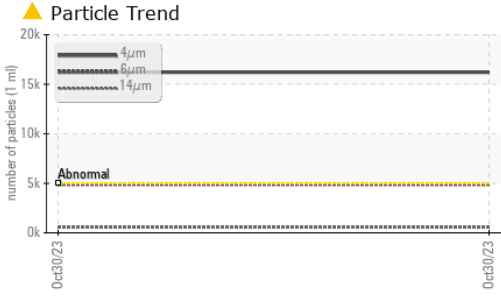
FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	▲ 16202	---	---
Particles >6µm	ASTM D7647	>1300	▲ 4910	---	---
Particles >14µm	ASTM D7647	>160	▲ 542	---	---
Particles >21µm	ASTM D7647	>40	▲ 144	---	---
Particles >38µm	ASTM D7647	>10	4	---	---
Particles >71µm	ASTM D7647	>3	0	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 21/19/16	---	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.30	---

OIL ANALYSIS REPORT



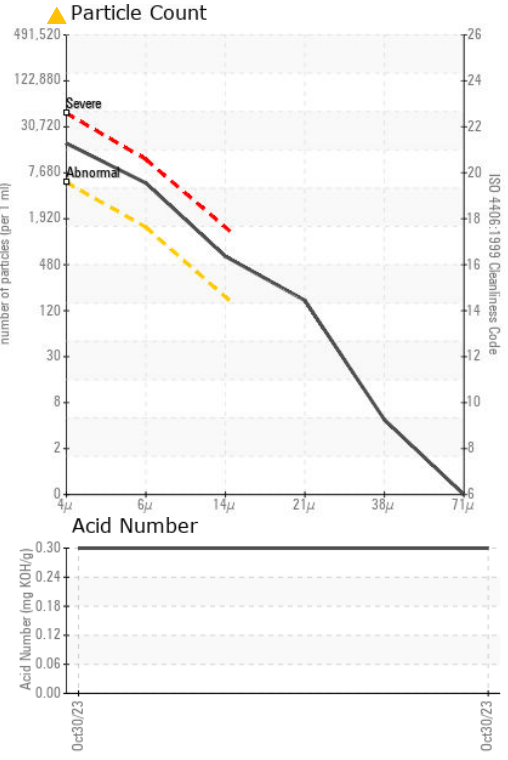
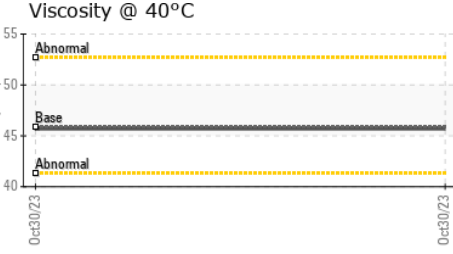
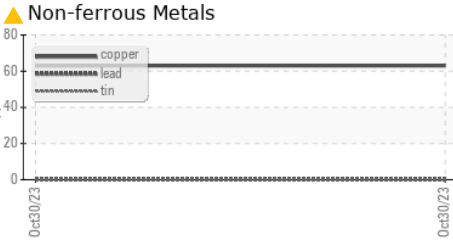
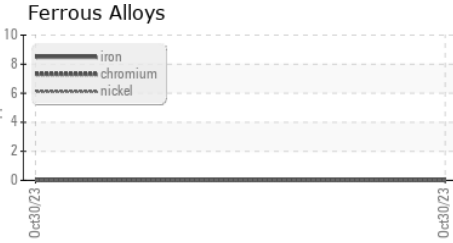
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	LIGHT	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45.89	45.7	---

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

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC05995550 **Received** : 01 Nov 2023
Lab Number : 05995550 **Diagnosed** : 02 Nov 2023
Unique Number : 10723910 **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)