

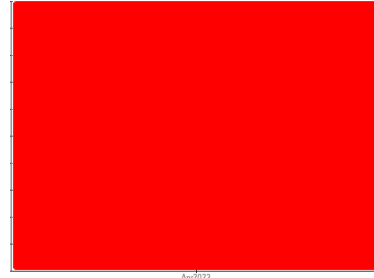


PROBLEM SUMMARY

Sample Rating Trend

VISUAL METAL

Machine Id
HCTS (S/N CB105-BL)
Component
Servo Valve Upstream Hydraulic System
Fluid
DEXRON-VI (--- GAL)



COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

We recommend you service the filters on this component. We advise that you inspect for the source(s) of wear. Resample at the next service interval to monitor. Please note that this is a corrected copy for laboratory data updates for particle count.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	---	---
Particles >6µm	ASTM D7647	>1300	▲ 1479	---	---	---
Particles >14µm	ASTM D7647	>160	▲ 252	---	---	---
Particles >21µm	ASTM D7647	>40	▲ 85	---	---	---
Particles >38µm	ASTM D7647	>10	▲ 13	---	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 19/18/15	---	---	---
White Metal	scalar	*Visual	NONE	◆ MODER	---	---

Customer Id: DUNAUS
Sample No.: WC0806750
Lab Number: 05831123
Test Package: PLANT



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
Inspect Wear Source	MISSED	May 09 2023	?	We advise that you inspect for the source(s) of wear.
Change Filter	MISSED	May 09 2023	?	We recommend you service the filters on this component.

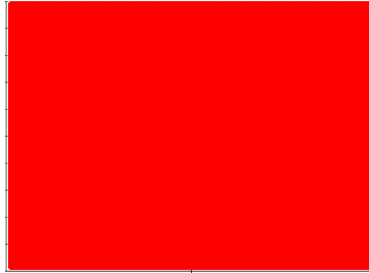
HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend

VISUAL METAL



Machine Id
HCTS (S/N CB105-BL)
Component
Servo Valve Upstream Hydraulic System
Fluid
DEXRON-VI (--- GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. We advise that you inspect for the source(s) of wear. Resample at the next service interval to monitor. Please note that this is a corrected copy for laboratory data updates for particle count.

Wear

Moderate concentration of visible metal present. All component wear rates are normal.

Contamination

There is a moderate 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		WC0806750	---	---
Sample Date	Client Info		24 Apr 2023	---	---
Machine Age	hrs	Client Info	0	---	---
Oil Age	hrs	Client Info	0	---	---
Oil Changed	Client Info		N/A	---	---
Sample Status			SEVERE	---	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	4	---	---
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	1	---	---
Lead	ppm	ASTM D5185m >20	<1	---	---
Copper	ppm	ASTM D5185m >20	2	---	---
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 75	17	---	---
Barium	ppm	ASTM D5185m 0	0	---	---
Molybdenum	ppm	ASTM D5185m 0	3	---	---
Manganese	ppm	ASTM D5185m	0	---	---
Magnesium	ppm	ASTM D5185m 0	<1	---	---
Calcium	ppm	ASTM D5185m 200	74	---	---
Phosphorus	ppm	ASTM D5185m 300	175	---	---
Zinc	ppm	ASTM D5185m 25	9	---	---
Sulfur	ppm	ASTM D5185m 1200	1615	---	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	1	---	---
Sodium	ppm	ASTM D5185m	0	---	---
Potassium	ppm	ASTM D5185m >20	3	---	---

FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	2714	---	---
Particles >6µm	ASTM D7647	>1300	▲ 1479	---	---
Particles >14µm	ASTM D7647	>160	▲ 252	---	---
Particles >21µm	ASTM D7647	>40	▲ 85	---	---
Particles >38µm	ASTM D7647	>10	▲ 13	---	---
Particles >71µm	ASTM D7647	>3	1	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 19/18/15	---	---

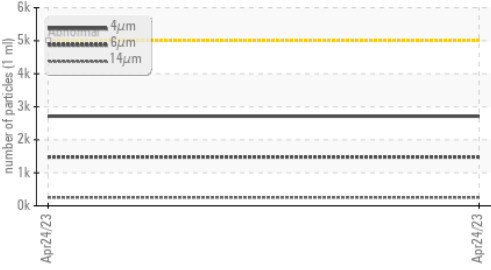
FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.77	---	---

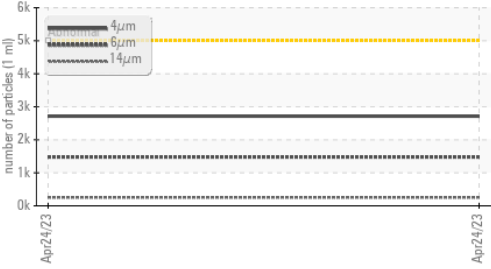


OIL ANALYSIS REPORT

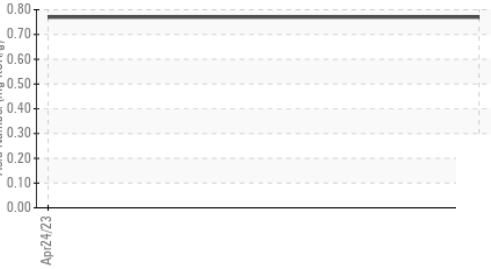
▲ Particle Trend



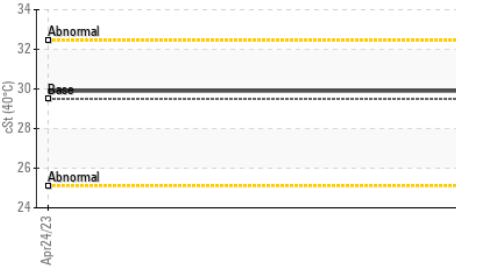
▲ Particle Trend



Acid Number



Viscosity @ 40°C



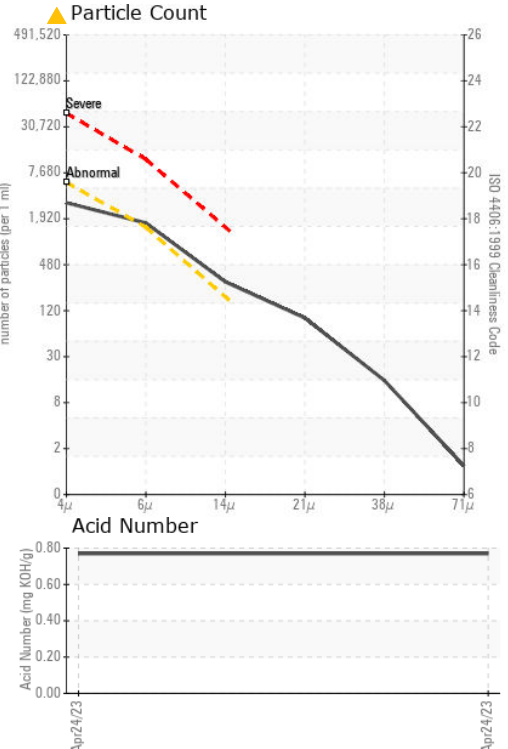
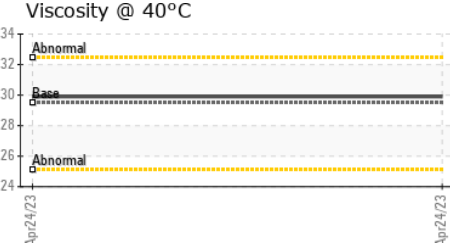
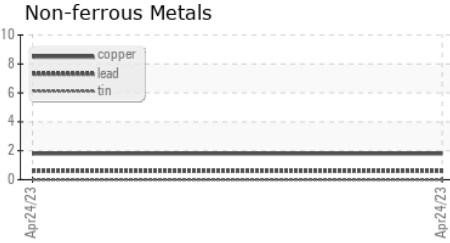
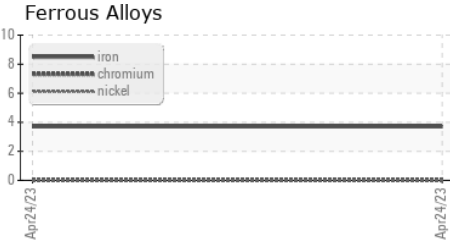
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	● MODER	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Precipitate	scalar	*Visual	NONE	NONE	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
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	29.5	29.9	---	---

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. : WC0806750 **Received** : 27 Apr 2023
Lab Number : 05831123 **Diagnosed** : 03 May 2023
Unique Number : 10444616 **Diagnostician** : Doug Bogart
Test Package : PLANT

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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)