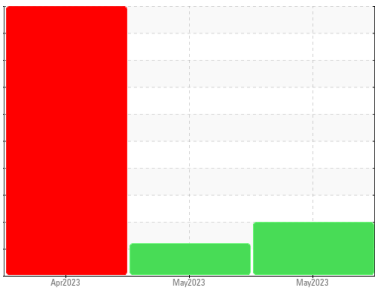
PROBLEM SUMMARY

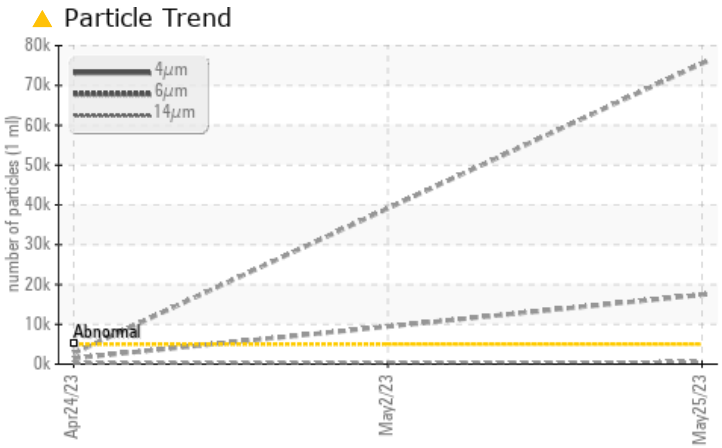
Sample Rating Trend



ISO

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

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	ABNORMAL	SEVERE
Particles >4µm		ASTM D7647	>5000	▲ **75520**	---	2714
Particles >6µm		ASTM D7647	>1300	▲ **17437**	---	▲ 1479
Particles >14µm		ASTM D7647	>160	▲ **595**	---	▲ 252
Particles >21µm		ASTM D7647	>40	▲ **84**	---	▲ 85
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ **23/21/16**	---	▲ 19/18/15

Customer Id: DUNAUS
Sample No.: WC0806748
Lab Number: 05859212
Test Package: PLANT

To manage this report scan the QR code

To discuss the diagnosis or test data:
Don Baldridge +1
don.b505@comcast.net

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	MISSED	Jun 14 2023	?	We recommend you service the filters on this component.

HISTORICAL DIAGNOSIS

02 May 2023 Diag: Don Baldridge

VISUAL METAL

We recommend you service the filters on this component. We advise that you inspect for the source(s) of metal. Resample at the next service interval to monitor. We were unable to perform a particle count due to metal particles present in this sample.Moderate concentration of visible metal present. All component wear rates are normal. No other contaminants were detected in the oil. The AN level is acceptable for this fluid.

view report

24 Apr 2023 Diag: Doug Bogart

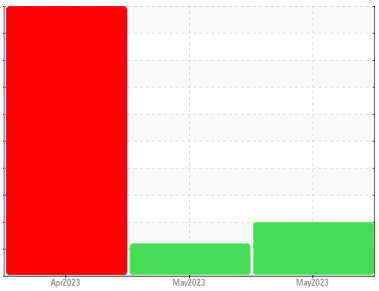
VISUAL METAL

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.Moderate concentration of visible metal present. All component wear rates are normal. There is a moderate amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



ISO

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. Resample at the next service interval to monitor.

Wear
All 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		**WC0806748**	WC0806749	WC0806750
Sample Date		Client Info		**25 May 2023**	02 May 2023	24 Apr 2023
Machine Age	hrs	Client Info		**0**	0	0
Oil Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**N/A**	N/A	N/A
Sample Status				**ABNORMAL**	ABNORMAL	SEVERE

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	**5**	3	4
Chromium	ppm	ASTM D5185m	>20	**<1**	0	0
Nickel	ppm	ASTM D5185m	>20	**0**	0	0
Titanium	ppm	ASTM D5185m		**<1**	0	0
Silver	ppm	ASTM D5185m		**<1**	0	0
Aluminum	ppm	ASTM D5185m	>20	**4**	4	1
Lead	ppm	ASTM D5185m	>20	**1**	0	<1
Copper	ppm	ASTM D5185m	>20	**1**	<1	2
Tin	ppm	ASTM D5185m	>20	**<1**	0	0
Vanadium	ppm	ASTM D5185m		**0**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	75	**17**	15	17
Barium	ppm	ASTM D5185m	0	**0**	0	0
Molybdenum	ppm	ASTM D5185m	0	**<1**	0	3
Manganese	ppm	ASTM D5185m		**<1**	<1	0
Magnesium	ppm	ASTM D5185m	0	**12**	0	<1
Calcium	ppm	ASTM D5185m	200	**146**	76	74
Phosphorus	ppm	ASTM D5185m	300	**208**	182	175
Zinc	ppm	ASTM D5185m	25	**52**	0	9
Sulfur	ppm	ASTM D5185m	1200	**1845**	1536	1615

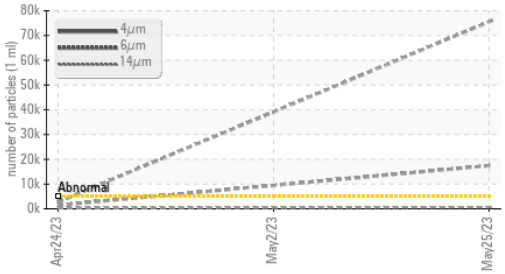
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	**2**	<1	1
Sodium	ppm	ASTM D5185m		**2**	<1	0
Potassium	ppm	ASTM D5185m	>20	**3**	1	3

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	▲ **75520**	---	2714
Particles >6µm		ASTM D7647	>1300	▲ **17437**	---	▲ 1479
Particles >14µm		ASTM D7647	>160	▲ **595**	---	▲ 252
Particles >21µm		ASTM D7647	>40	▲ **84**	---	▲ 85
Particles >38µm		ASTM D7647	>10	**0**	---	▲ 13
Particles >71µm		ASTM D7647	>3	**0**	---	1
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ **23/21/16**	---	▲ 19/18/15

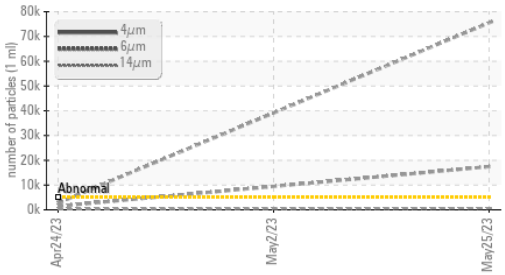
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.71**	0.79	0.77

OIL ANALYSIS REPORT

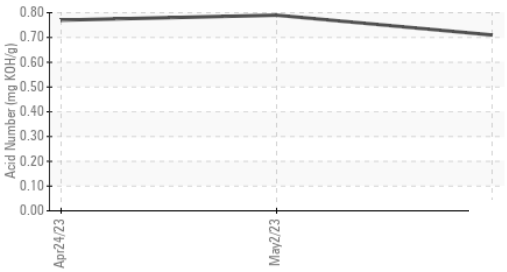
Particle Trend



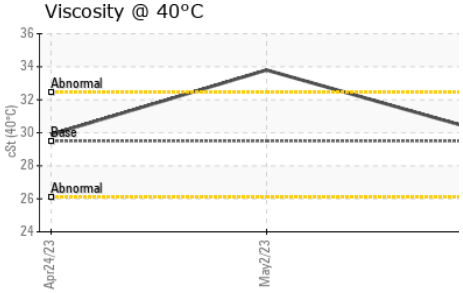
Particle Trend



Acid Number

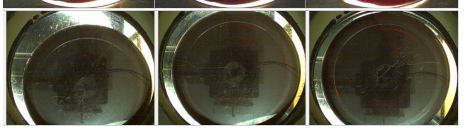


Viscosity @ 40°C



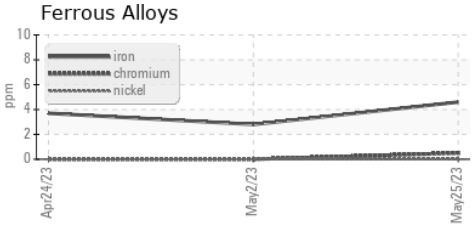
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	▲ MODER	⬢ MODER
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	29.5	**30.1**	33.8	29.9

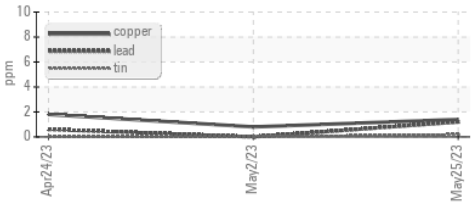
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

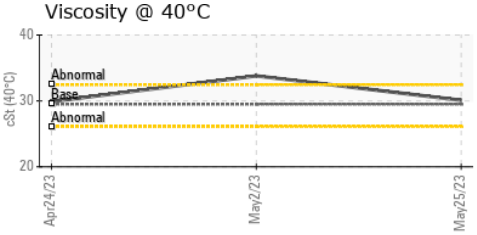
Ferrous Alloys



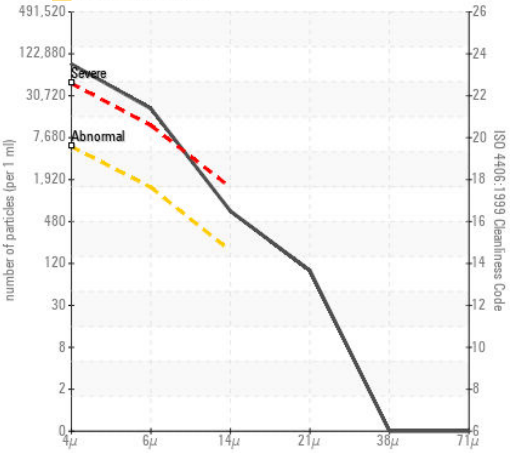
Non-ferrous Metals



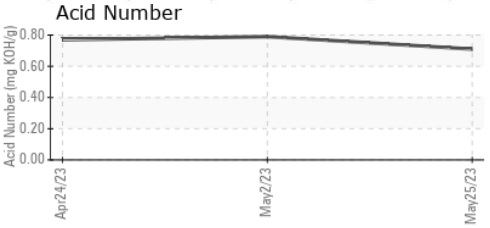
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory	: WearCheck USA - 501 Madison Ave., Cary, NC 27513		
Sample No.	: WC0806748	**Received**	: 30 May 2023
Lab Number	: 05859212	**Diagnosed**	: 31 May 2023
Unique Number	: 10493677	**Diagnostician**	: Don Baldridge
Test Package	: PLANT		

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)

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