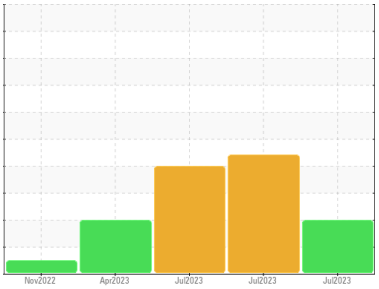
PROBLEM SUMMARY

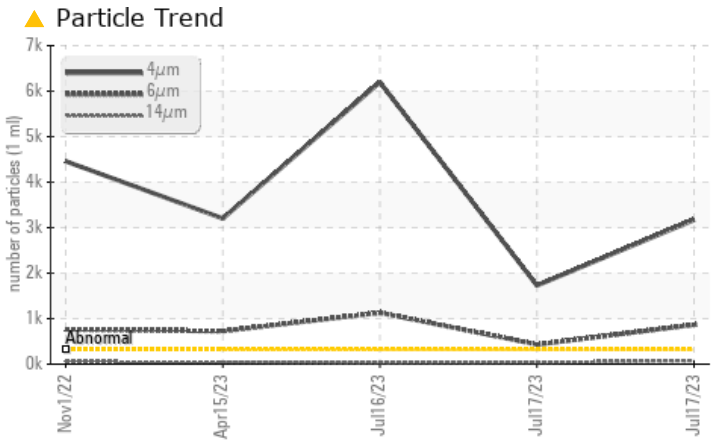
Sample Rating Trend



ISO

Area
{UNASSIGNED}
Machine Id
CIRGPB-1 (S/N 12-213)
Component
Hydraulic Power Pack
Fluid
MAC HYD FLUID AW 46 (275 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor. (Customer Sample Comment: Sample from return from cart to rez.)

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	SEVERE	SEVERE
Particles >4µm		ASTM D7647	>320	▲ **1729**	⬢ 3171	⬢ 6196
Particles >6µm		ASTM D7647	>80	▲ **432**	⬢ 866	⬢ 1129
Particles >14µm		ASTM D7647	>10	▲ **38**	▲ 71	▲ 30
Particles >21µm		ASTM D7647	>3	▲ **9**	▲ 19	5
Oil Cleanliness		ISO 4406 (c)	>15/13/10	▲ **18/16/12**	⬢ 19/17/13	⬢ 20/17/12

Customer Id: WESCONSC
Sample No.: WC0782751
Lab Number: 05903197
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 recommend you service the filters on this component.

HISTORICAL DIAGNOSIS

17 Jul 2023 Diag:

ISO

view report

16 Jul 2023 Diag:

ISO

view report

15 Apr 2023 Diag: Doug Bogart

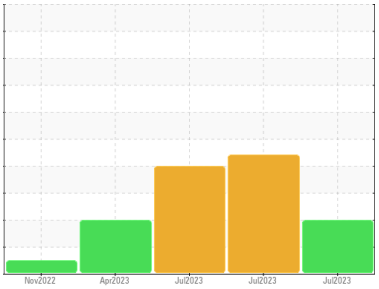
ISO

We recommend you service the filters on this component. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of particulates present in the oil. The system cleanliness is above the acceptable limit for the target ISO 4406 cleanliness code. 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

Area
{UNASSIGNED}
Machine Id
CIRGPB-1 (S/N 12-213)
Component
Hydraulic Power Pack
Fluid
MAC HYD FLUID AW 46 (275 GAL)

DIAGNOSIS

Recommendation
We recommend you service the filters on this component. Resample at the next service interval to monitor. (Customer Sample Comment: Sample from return from cart to rez.)

Wear
All component wear rates are normal.

Contamination
There is a high amount of particulates present in the oil. The system cleanliness is above the acceptable limit for the target ISO 4406 cleanliness code.

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		**WC0782751**	WC0782750	WC0782749
Sample Date		Client Info		**17 Jul 2023**	17 Jul 2023	16 Jul 2023
Machine Age	hrs	Client Info		**15575**	15575	15570
Oil Age	hrs	Client Info		**5**	5	0
Oil Changed		Client Info		**Diff Oil**	Diff Oil	Changed
Sample Status				**ABNORMAL**	SEVERE	SEVERE

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	**0**	0	0
Chromium	ppm	ASTM D5185m	>20	**0**	0	0
Nickel	ppm	ASTM D5185m	>20	**0**	0	0
Titanium	ppm	ASTM D5185m		**<1**	<1	<1
Silver	ppm	ASTM D5185m		**<1**	<1	<1
Aluminum	ppm	ASTM D5185m	>20	**<1**	<1	<1
Lead	ppm	ASTM D5185m	>20	**<1**	0	0
Copper	ppm	ASTM D5185m	>20	**<1**	<1	0
Tin	ppm	ASTM D5185m	>20	**0**	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		**13**	13	14
Barium	ppm	ASTM D5185m		**<1**	<1	<1
Molybdenum	ppm	ASTM D5185m		**13**	13	13
Manganese	ppm	ASTM D5185m		**0**	0	0
Magnesium	ppm	ASTM D5185m		**43**	42	44
Calcium	ppm	ASTM D5185m		**355**	350	346
Phosphorus	ppm	ASTM D5185m		**318**	313	304
Zinc	ppm	ASTM D5185m		**401**	400	394
Sulfur	ppm	ASTM D5185m		**2413**	2594	2515

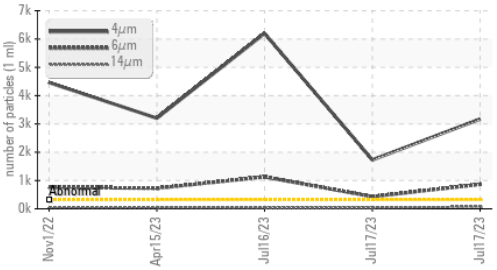
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	**4**	3	4
Sodium	ppm	ASTM D5185m		**<1**	<1	2
Potassium	ppm	ASTM D5185m	>20	**<1**	1	1

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>320	▲ **1729**	⬢ 3171	⬢ 6196
Particles >6µm		ASTM D7647	>80	▲ **432**	⬢ 866	⬢ 1129
Particles >14µm		ASTM D7647	>10	▲ **38**	▲ 71	▲ 30
Particles >21µm		ASTM D7647	>3	▲ **9**	▲ 19	5
Particles >38µm		ASTM D7647	>3	**0**	1	0
Particles >71µm		ASTM D7647	>3	**0**	0	0
Oil Cleanliness		ISO 4406 (c)	>15/13/10	▲ **18/16/12**	⬢ 19/17/13	⬢ 20/17/12

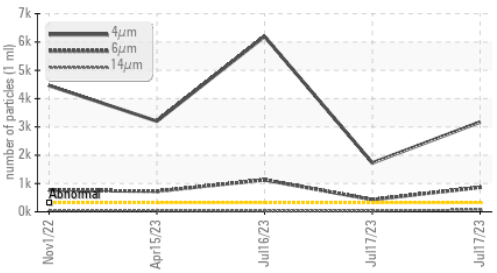
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.57**	0.51	0.57

OIL ANALYSIS REPORT

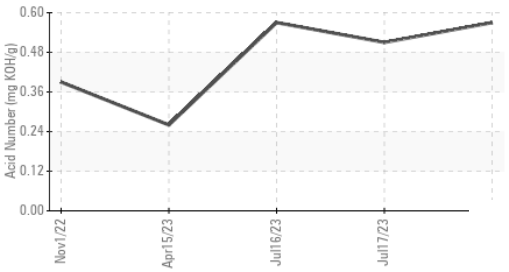
Particle Trend



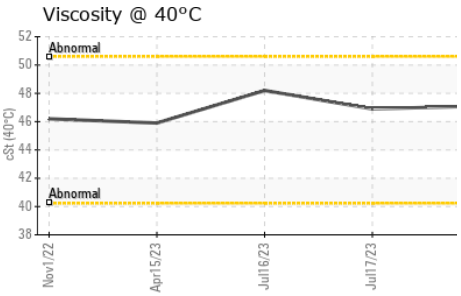
Particle Trend



Acid Number



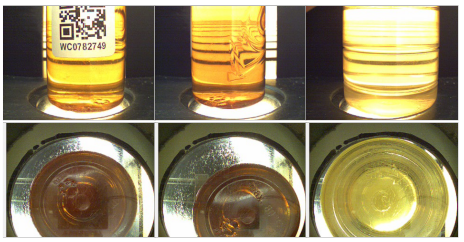
Viscosity @ 40°C



VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
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

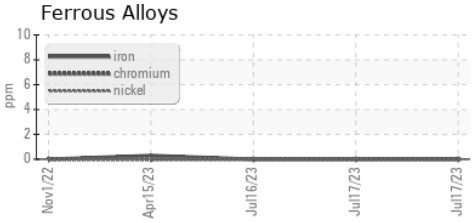
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		**47.1**	46.9	48.2

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

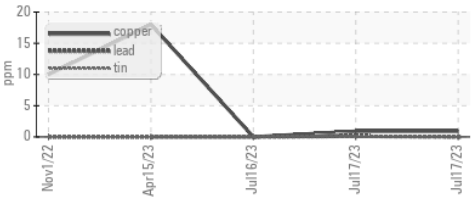


GRAPHS

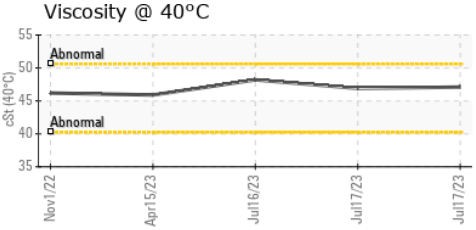
Ferrous Alloys



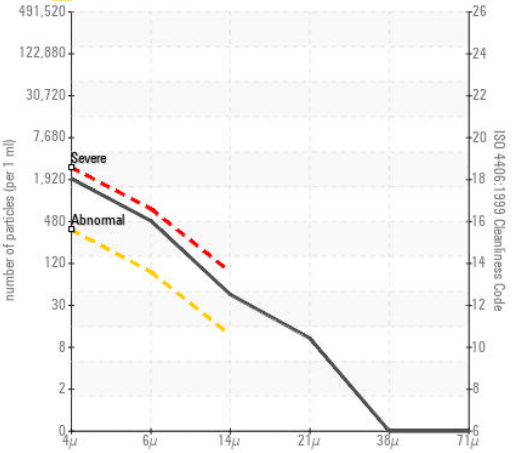
Non-ferrous Metals



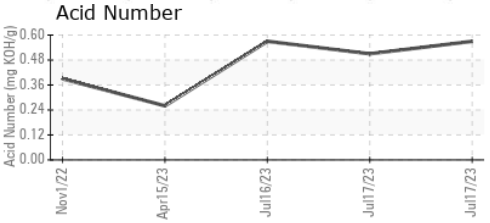
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0782751
Lab Number : 05903197
Unique Number : 10564553
Test Package : IND 2

Received : 20 Jul 2023
Diagnosed : 24 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)

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