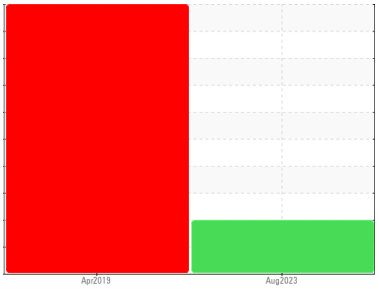
PROBLEM SUMMARY

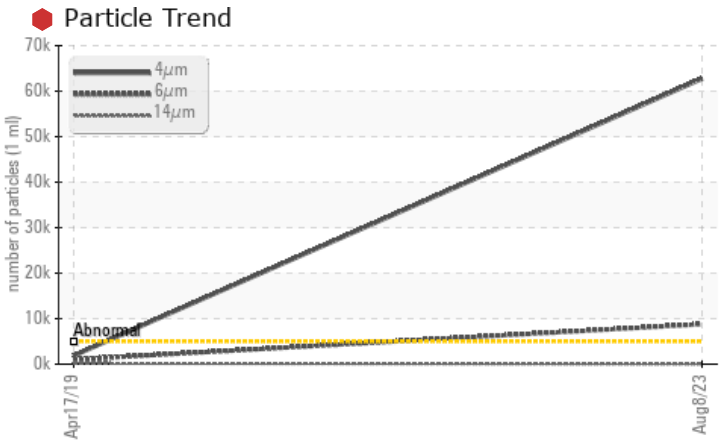
Sample Rating Trend



ISO

Machine Id
AP PRESS 1
Component
Hydraulic System
Fluid
NOT GIVEN (200 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. The filter change at the time of sampling has been noted. Resample in 30-45 days to monitor this situation. Please specify the brand, type, and viscosity of the oil on your next sample.

PROBLEMATIC TEST RESULTS

Sample Status				**SEVERE**	SEVERE	---
Particles >4µm		ASTM D7647	>5000	**62741**	1854	---
Particles >6µm		ASTM D7647	>1300	**8777**	1010	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	**23/20/14**	18/17/15	---

Customer Id: INLFLO
Sample No.: WC0433740
Lab Number: 05929558
Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:
Wes Davis +1 905-569-8600 x223
wesd@wearcheck.ca

To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Resample	---	---	?	Resample in 30-45 days to monitor this situation.
Information Required	---	---	?	Please specify the brand, type, and viscosity of the oil on your next sample.
Check Breathers	---	---	?	The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather.
Check Seals	---	---	?	Check seals and/or filters for points of contaminant entry.

HISTORICAL DIAGNOSIS

17 Apr 2019 Diag: Don Baldridge

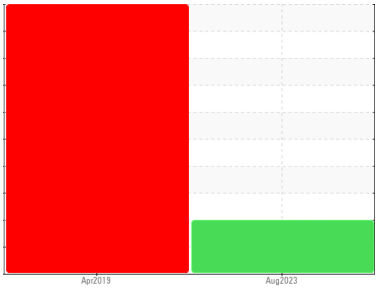
VISUAL METAL

We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.High concentration of visible metal present. Gear wear is indicated. Bearing and/or bushing wear is indicated. There is a moderate amount of particulates present in the oil. The AN level is acceptable for this fluid.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



ISO

Machine Id
AP PRESS 1
Component
Hydraulic System
Fluid
NOT GIVEN (200 GAL)

DIAGNOSIS

Recommendation

Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. The filter change at the time of sampling has been noted. Resample in 30-45 days to monitor this situation. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0433740**	WCI2329314	---
Sample Date		Client Info		**08 Aug 2023**	17 Apr 2019	---
Machine Age	yrs	Client Info		**0**	0	---
Oil Age	yrs	Client Info		**0**	0	---
Oil Changed		Client Info		**N/A**	Not Changd	---
Sample Status				**SEVERE**	SEVERE	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	**2**	▲ 24	---
Chromium	ppm	ASTM D5185m	>20	**0**	<1	---
Nickel	ppm	ASTM D5185m	>20	**0**	0	---
Titanium	ppm	ASTM D5185m		**<1**	<1	---
Silver	ppm	ASTM D5185m		**0**	0	---
Aluminum	ppm	ASTM D5185m	>20	**0**	1	---
Lead	ppm	ASTM D5185m	>20	**0**	▲ 23	---
Copper	ppm	ASTM D5185m	>20	**<1**	▲ 30	---
Tin	ppm	ASTM D5185m	>20	**0**	0	---
Antimony	ppm	ASTM D5185m		**---**	0	---
Vanadium	ppm	ASTM D5185m		**<1**	0	---
Cadmium	ppm	ASTM D5185m		**0**	0	---

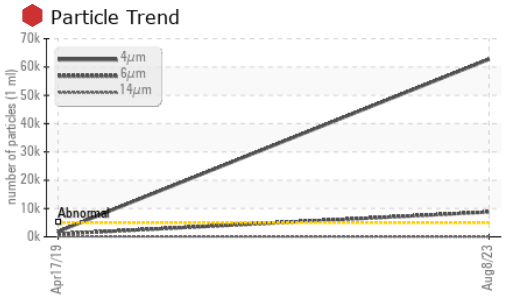
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**40**	2	---
Barium	ppm	ASTM D5185m		**0**	<1	---
Molybdenum	ppm	ASTM D5185m		**18**	<1	---
Manganese	ppm	ASTM D5185m		**0**	<1	---
Magnesium	ppm	ASTM D5185m		**123**	3	---
Calcium	ppm	ASTM D5185m		**504**	97	---
Phosphorus	ppm	ASTM D5185m		**390**	296	---
Zinc	ppm	ASTM D5185m		**393**	370	---
Sulfur	ppm	ASTM D5185m		**2037**	1444	---

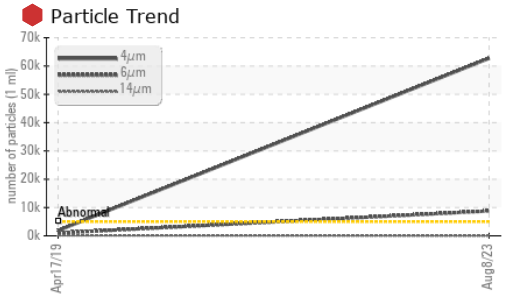
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	**4**	14	---
Sodium	ppm	ASTM D5185m		**3**	<1	---
Potassium	ppm	ASTM D5185m	>20	**0**	0	---

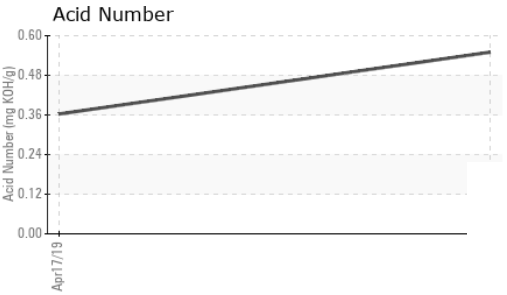
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	● **62741**	1854	---
Particles >6µm		ASTM D7647	>1300	▲ **8777**	1010	---
Particles >14µm		ASTM D7647	>160	**81**	▲ 172	---
Particles >21µm		ASTM D7647	>40	**18**	▲ 58	---
Particles >38µm		ASTM D7647	>10	**0**	8	---
Particles >71µm		ASTM D7647	>3	**0**	0	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	● **23/20/14**	▲ 18/17/15	---

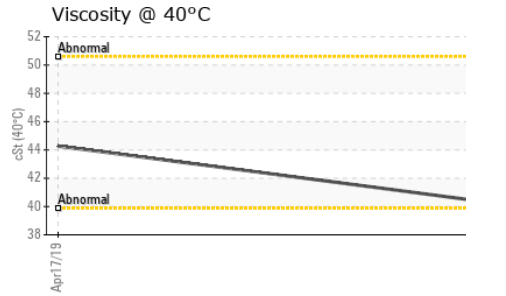
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.55**	0.363	---

OIL ANALYSIS REPORT







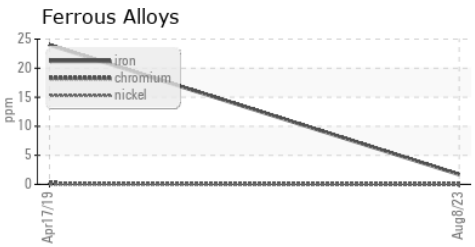


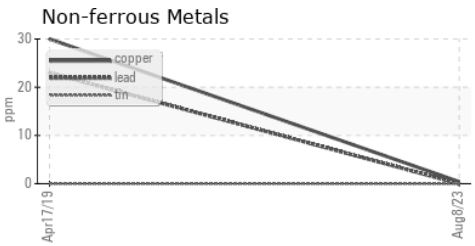
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	HEAVY	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	---
Silt	scalar	*Visual	NONE	**NONE**	NONE	---
Debris	scalar	*Visual	NONE	**NONE**	LIGHT	---
Sand/Dirt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

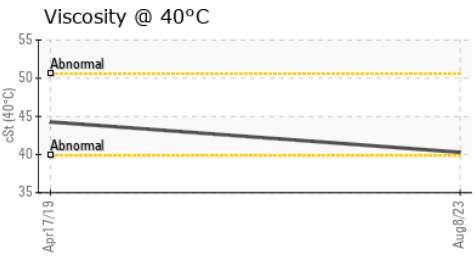
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		**40.3**	44.27	---

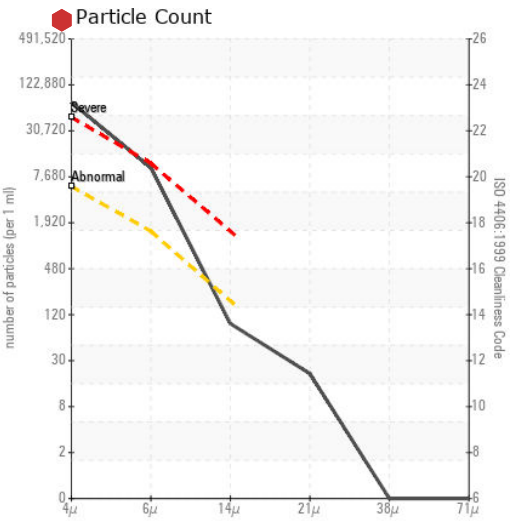
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					*no image*
Bottom					*no image*

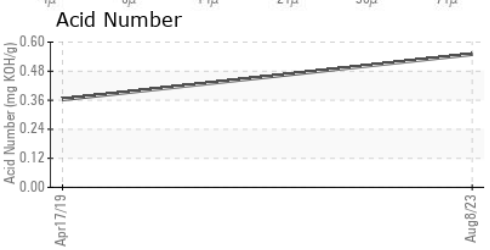
GRAPHS











Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0433740
Lab Number : 05929558
Unique Number : 10609505
Test Package : IND 2

Received : 21 Aug 2023
Diagnosed : 22 Aug 2023
Diagnostician : Wes Davis

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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