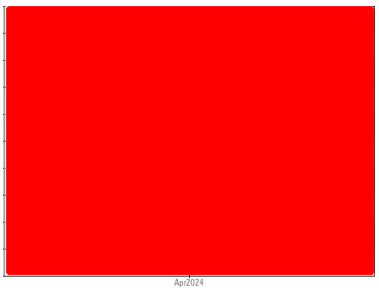
PROBLEM SUMMARY

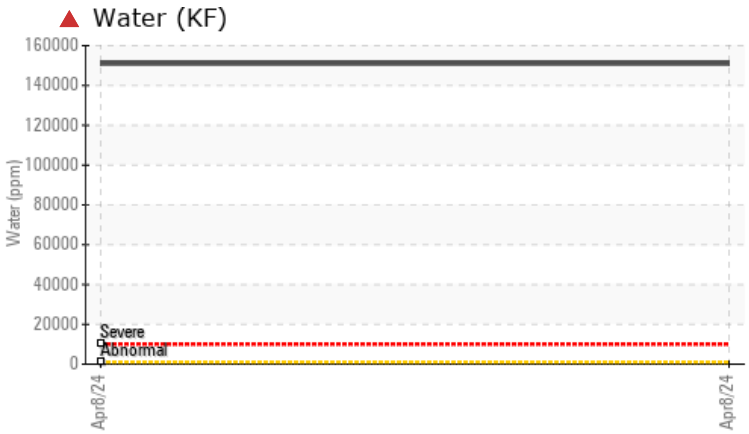
Sample Rating Trend

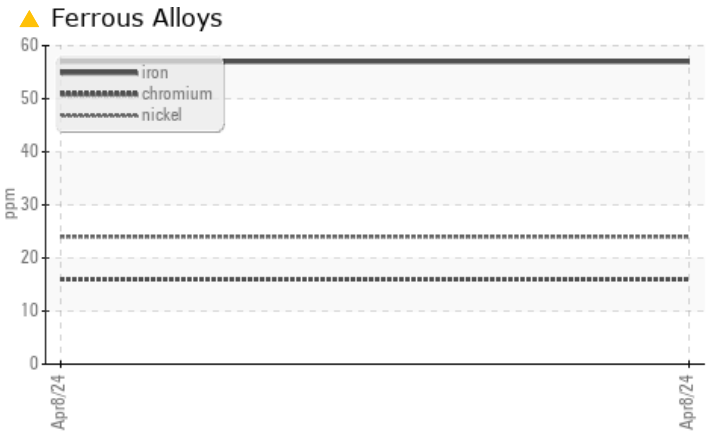


WATER

Area
ULTRA COOLANT
Machine Id
INGERSOLL RAND EP50 - PCC (S/N NOT GIVEN)
Component
Compressor

COMPONENT CONDITION SUMMARY





RECOMMENDATION

We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition. Please note that there was too much water present in the oil to perform a viscosity test.

PROBLEMATIC TEST RESULTS

Sample Status				**SEVERE**	---	---
Iron	ppm	ASTM D5185m	>50	▲ **57**	---	---
Chromium	ppm	ASTM D5185m	>10	▲ **16**	---	---
Water	%	ASTM D6304	>0.1	▲ **15.1**	---	---
ppm Water	ppm	ASTM D6304	>1000	▲ **151000**	---	---
Silt	scalar	*Visual	NONE	▲ **MODER**	---	---
Emulsified Water	scalar	*Visual	>0.1	▲ **0.2%**	---	---
Free Water	scalar	*Visual		▲ **>10%**	---	---

Customer Id: UCCISSAC
Sample No.: UCH06156148
Lab Number: 06156148
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

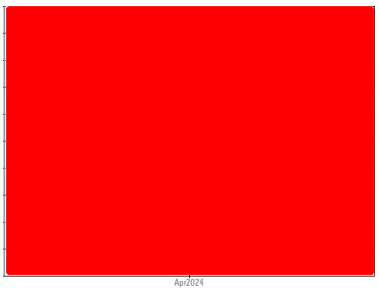
RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Fluid	---	---	?	We recommend that you drain the oil and perform a filter service on this component if not already done.
Change Filter	---	---	?	We recommend that you drain the oil and perform a filter service on this component if not already done.
Resample	---	---	?	We recommend an early resample to monitor this condition.
Alert	---	---	?	Please note that there was too much water present in the oil to perform a viscosity test.

HISTORICAL DIAGNOSIS

OIL ANALYSIS REPORT

Sample Rating Trend



WATER

Area
ULTRA COOLANT
Machine Id
INGERSOLL RAND EP50 - PCC (S/N NOT GIVEN)
Component
Compressor

DIAGNOSIS

Recommendation
We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition. Please note that there was too much water present in the oil to perform a viscosity test.

Wear
The iron level is abnormal. The chromium level is abnormal.

Contamination
Appearance is milky. Sample consists almost entirely of free water. There is a high concentration of water present in the oil. There is a moderate amount of visible silt present in the sample.

Fluid Condition
The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**UCH06156148**	---	---
Sample Date		Client Info		**08 Apr 2024**	---	---
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	>50	▲ **57**	---	---
Chromium	ppm	ASTM D5185m	>10	▲ **16**	---	---
Nickel	ppm	ASTM D5185m		**24**	---	---
Titanium	ppm	ASTM D5185m		**<1**	---	---
Silver	ppm	ASTM D5185m		**0**	---	---
Aluminum	ppm	ASTM D5185m	>25	**12**	---	---
Lead	ppm	ASTM D5185m	>25	**0**	---	---
Copper	ppm	ASTM D5185m	>50	**12**	---	---
Tin	ppm	ASTM D5185m	>15	**2**	---	---
Vanadium	ppm	ASTM D5185m		**<1**	---	---
Cadmium	ppm	ASTM D5185m		**<1**	---	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**8**	---	---
Barium	ppm	ASTM D5185m	556	**299**	---	---
Molybdenum	ppm	ASTM D5185m		**4**	---	---
Manganese	ppm	ASTM D5185m		**3**	---	---
Magnesium	ppm	ASTM D5185m		**9**	---	---
Calcium	ppm	ASTM D5185m	242	**19**	---	---
Phosphorus	ppm	ASTM D5185m	0	**19**	---	---
Zinc	ppm	ASTM D5185m	0	**18**	---	---
Sulfur	ppm	ASTM D5185m	306	**213**	---	---

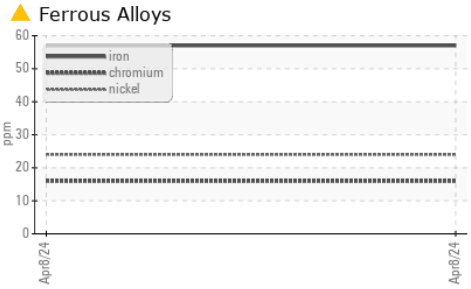
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	**8**	---	---
Sodium	ppm	ASTM D5185m		**19**	---	---
Potassium	ppm	ASTM D5185m	>20	**4**	---	---
Water	%	ASTM D6304	>0.1	▲ **15.1**	---	---
ppm Water	ppm	ASTM D6304	>1000	▲ **151000**	---	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.2	**0.157**	---	---

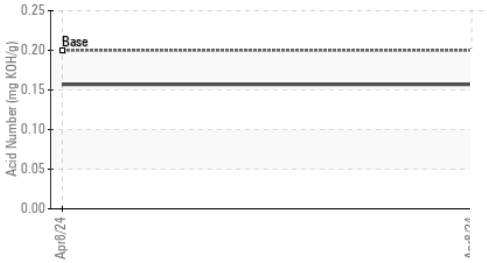
OIL ANALYSIS REPORT

Water (KF)

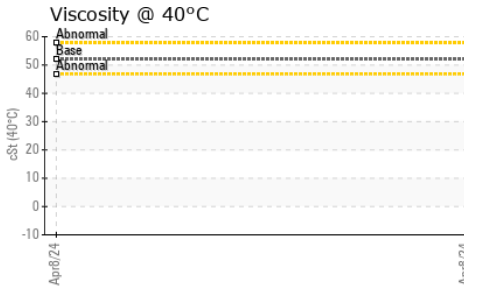
Ferrous Alloys



Acid Number



Viscosity @ 40°C

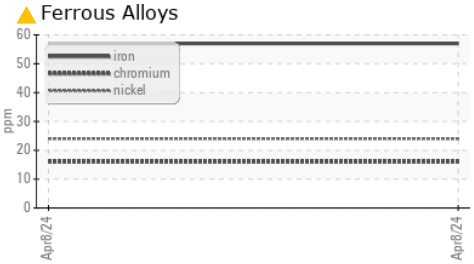


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	---	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	---	---
Precipitate	scalar	*Visual	NONE	**NONE**	---	---
Silt	scalar	*Visual	NONE	▲ **MODER**	---	---
Debris	scalar	*Visual	NONE	**NONE**	---	---
Sand/Dirt	scalar	*Visual	NONE	**NONE**	---	---
Appearance	scalar	*Visual	NORML	● **MILKY**	---	---
Odor	scalar	*Visual	NORML	**NORML**	---	---
Emulsified Water	scalar	*Visual	>0.1	▲ **0.2%**	---	---
Free Water	scalar	*Visual		▲ **>10%**	---	---

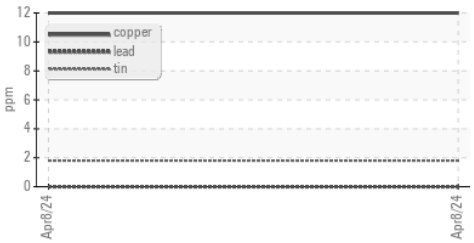
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				*no image*	*no image*
Bottom				*no image*	*no image*

GRAPHS

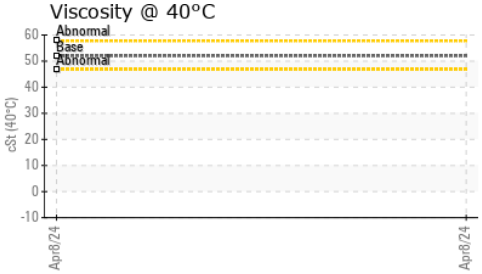
Ferrous Alloys



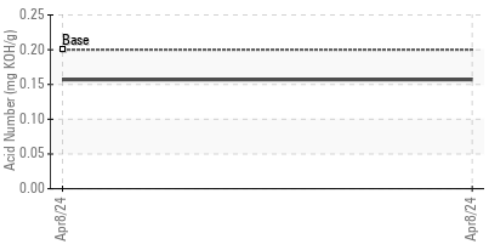
Non-ferrous Metals



Viscosity @ 40°C



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : UCH06156148
Lab Number : 06156148
Unique Number : 10991571
Test Package : IND 2 (Additional Tests: KF)

Received : 22 Apr 2024
Tested : 26 Apr 2024
Diagnosed : 26 Apr 2024 - Jonathan Hester

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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