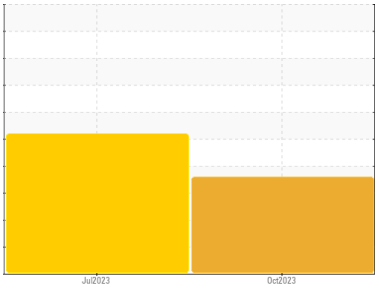
PROBLEM SUMMARY

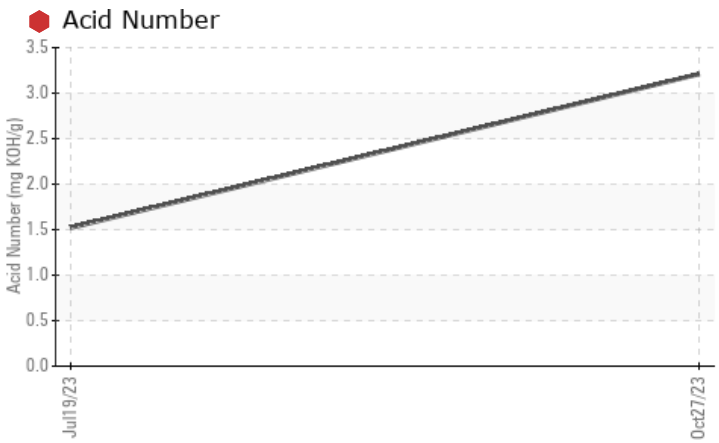
Sample Rating Trend

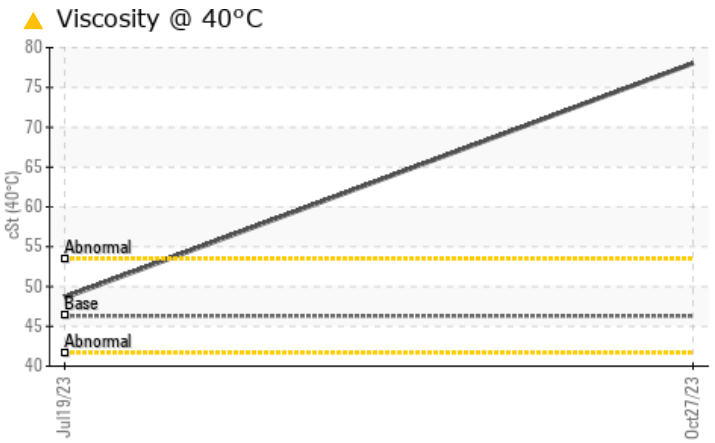


DEGRADATION

Machine Id
QUINCY C-510C
Component
Compressor
Fluid
QUINCY QUINSYN PLUS (55 GAL)

COMPONENT CONDITION SUMMARY





RECOMMENDATION

We advise that you check for a possible overheat condition. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				**SEVERE**	SEVERE	---
Acid Number (AN)	mg KOH/g	ASTM D8045		**3.21**	1.52	---
Visc @ 40°C	cSt	ASTM D445	46.3	**78.04**	48.6	---

Customer Id: PERMARRP
Sample No.: RP0038301
Lab Number: 05995696
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 from the component if this has not already been done.
Resample	---	---	?	We recommend an early resample to monitor this condition.
Check For Overheating	---	---	?	We advise that you check for a possible overheat condition.

HISTORICAL DIAGNOSIS

19 Jul 2023 Diag: Don Baldridge

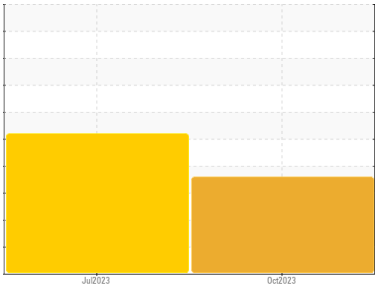
WATER

We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition.The iron level is abnormal. All other component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. There is a high concentration of water present in the oil. The AN level is acceptable for this fluid.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



DEGRADATION

Machine Id
QUINCY C-510C
Component
Compressor
Fluid
QUINCY QUINSYN PLUS (55 GAL)

DIAGNOSIS

Recommendation
We advise that you check for a possible overheat condition. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

Wear
All component wear rates are normal.

Contamination
There is no indication of any contamination in the oil.

Fluid Condition
The AN level is above the recommended limit. The oil viscosity is higher than normal.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**RP0038301**	RP0020283	---
Sample Date		Client Info		**27 Oct 2023**	19 Jul 2023	---
Machine Age	hrs	Client Info		**44418**	44000	---
Oil Age	hrs	Client Info		**1618**	8000	---
Oil Changed		Client Info		**Not Changd**	Not Changd	---
Sample Status				**SEVERE**	SEVERE	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	**8**	▲ 82	---
Chromium	ppm	ASTM D5185m	>5	**<1**	0	---
Nickel	ppm	ASTM D5185m		**<1**	0	---
Titanium	ppm	ASTM D5185m		**<1**	0	---
Silver	ppm	ASTM D5185m		**0**	0	---
Aluminum	ppm	ASTM D5185m	>15	**2**	0	---
Lead	ppm	ASTM D5185m	>65	**<1**	0	---
Copper	ppm	ASTM D5185m	>65	**3**	21	---
Tin	ppm	ASTM D5185m	>10	**0**	2	---
Vanadium	ppm	ASTM D5185m		**0**	0	---
Cadmium	ppm	ASTM D5185m		**<1**	<1	---

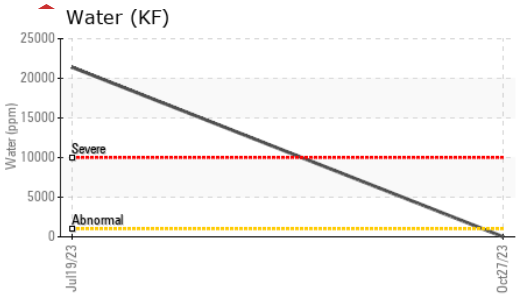
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**0**	4	---
Barium	ppm	ASTM D5185m		**5**	147	---
Molybdenum	ppm	ASTM D5185m		**<1**	0	---
Manganese	ppm	ASTM D5185m		**0**	<1	---
Magnesium	ppm	ASTM D5185m		**<1**	4	---
Calcium	ppm	ASTM D5185m		**2**	7	---
Phosphorus	ppm	ASTM D5185m		**17**	20	---
Zinc	ppm	ASTM D5185m		**0**	158	---

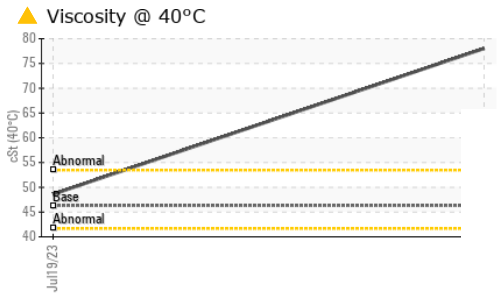
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>35	**2**	4	---
Sodium	ppm	ASTM D5185m		**<1**	39	---
Potassium	ppm	ASTM D5185m	>20	**<1**	11	---
Water	%	ASTM D6304	>0.1	**0.001**	⬢ 2.14	---
ppm Water	ppm	ASTM D6304	>1000	**2.6**	⬢ 21400	---

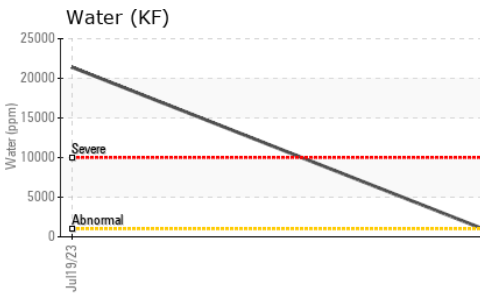
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		⬢ **3.21**	1.52	---

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

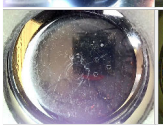
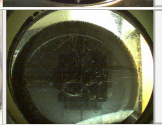
OIL ANALYSIS REPORT



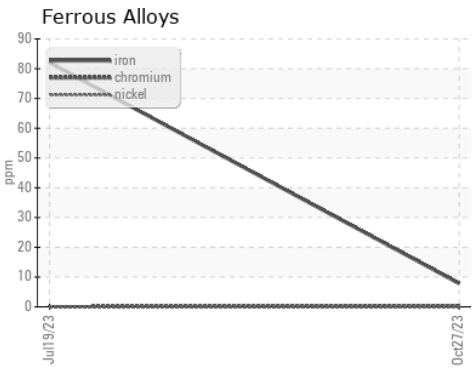


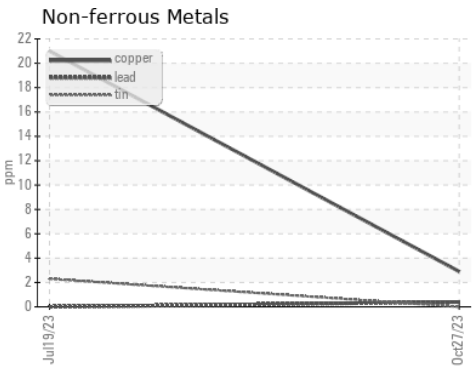


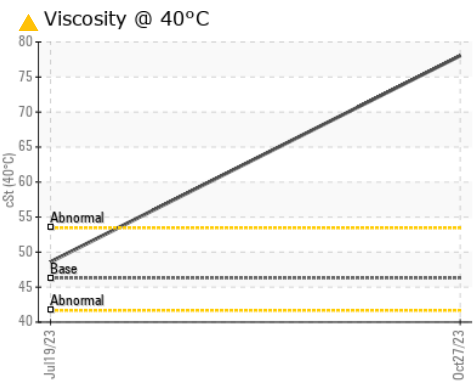
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46.3	▲ **78.04**	48.6	---

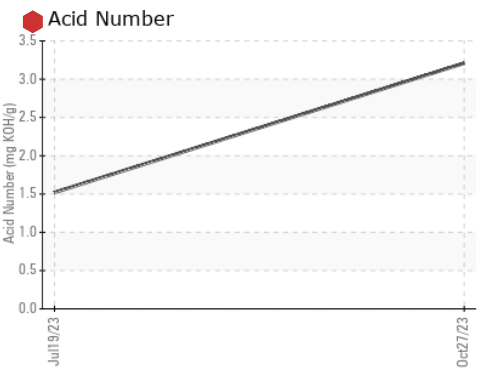
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					*no image*
Bottom					*no image*

GRAPHS









Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP0038301
Lab Number : 05995696
Unique Number : 10724056
Test Package : IND 2

Received : 01 Nov 2023
Diagnosed : 07 Nov 2023
Diagnostician : 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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