



WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
YACHT CRANE
Component
Port Hydraulic System
Fluid
TOTAL AW 46 (5 GAL)

RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor. Due to an abnormal test result it is recommended to contact Stauff Corp at (201)-444-7800 for help resolving the issue.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ST44740	ST44535	---
Sample Date		Client Info		08 Feb 2024	31 Jan 2024	---
Machine Age	yrs	Client Info		0	0	---
Oil Age	yrs	Client Info		1	1	---
Filter Age	yrs	Client Info		0	0	---
Oil Changed		Client Info		N/A	N/A	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				ABNORMAL	ABNORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	0	3	---
Chromium	ppm	ASTM D5185m	>20	0	0	---
Nickel	ppm	ASTM D5185m	>20	0	<1	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>20	0	<1	---
Lead	ppm	ASTM D5185m	>20	0	1	---
Copper	ppm	ASTM D5185m	>20	<1	5	---
Tin	ppm	ASTM D5185m	>20	<1	1	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

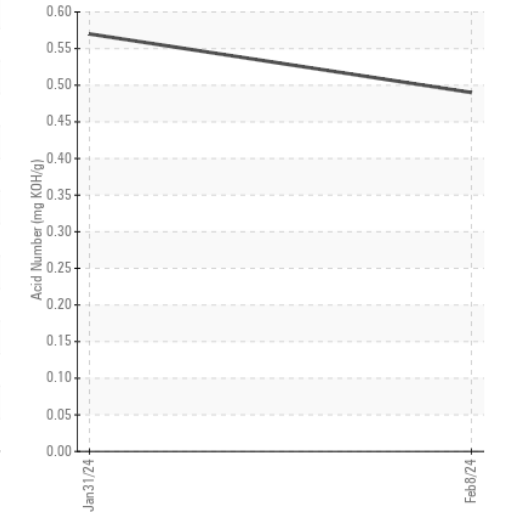
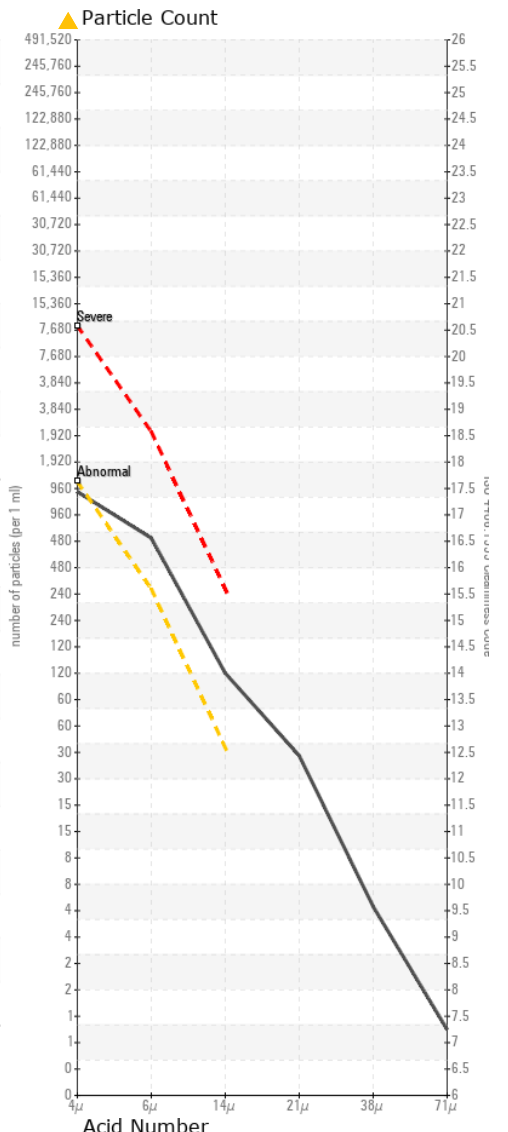
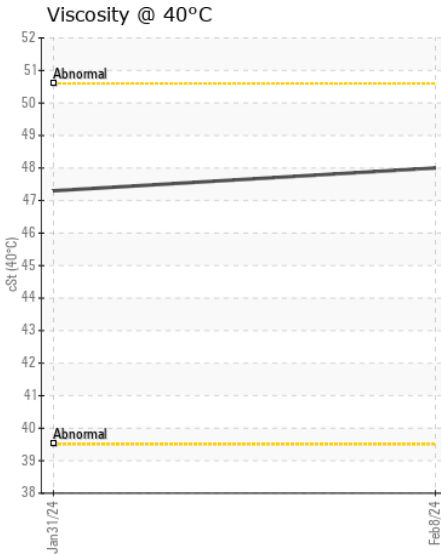
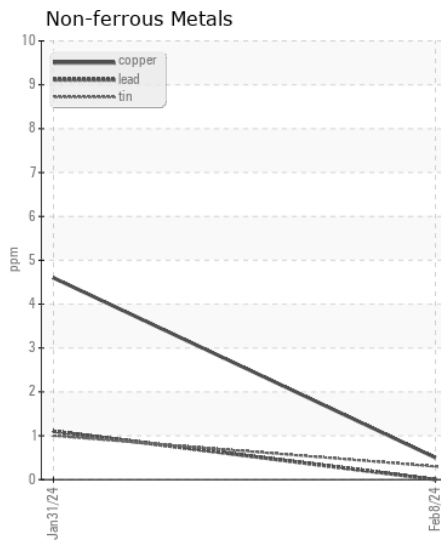
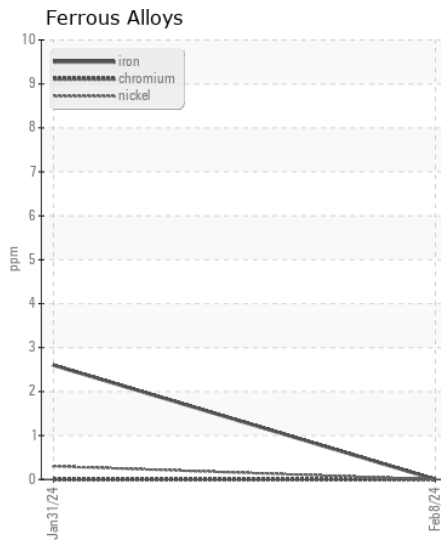
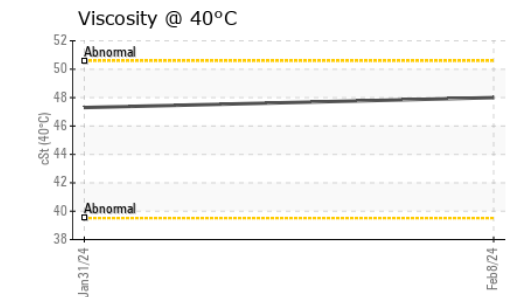
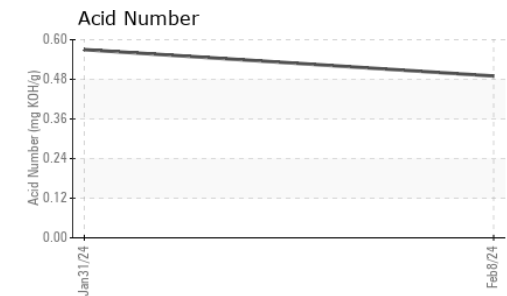
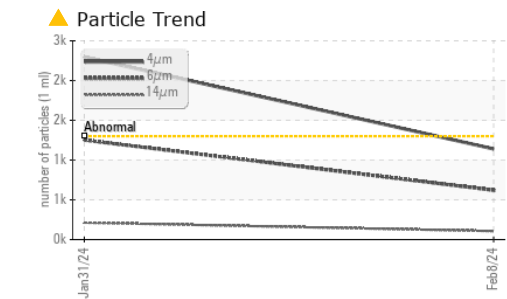
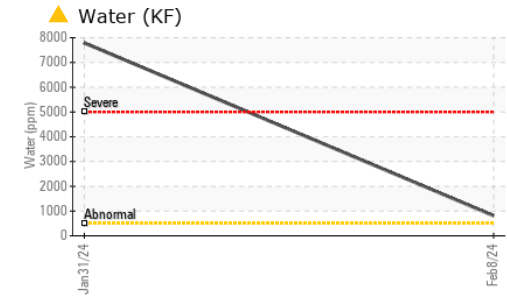
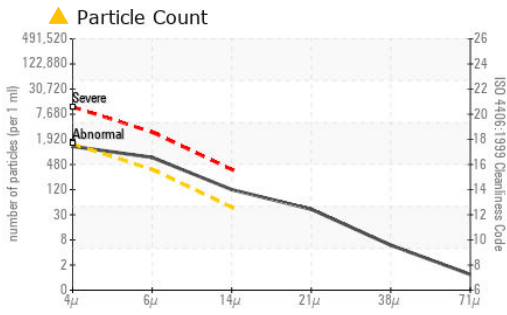
Appearance is milky. There is a high amount of particulates present in the oil. There is a light concentration of water present in the oil.

Silicon	ppm	ASTM D5185m	>15	<1	1	---
Potassium	ppm	ASTM D5185m	>20	0	<1	---
Water	%	ASTM D6304	>0.05	▲ 0.081	▲ 0.779	---
ppm Water	ppm	ASTM D6304	>500	▲ 812	▲ 7790	---
Particles >4µm		ASTM D7647	>1300	1140	▲ 2297	---
Particles >6µm		ASTM D7647	>320	621	▲ 1251	---
Particles >14µm		ASTM D7647	>40	▲ 106	▲ 213	---
Particles >21µm		ASTM D7647	>10	▲ 36	▲ 72	---
Particles >38µm		ASTM D7647	>3	▲ 5	▲ 11	---
Particles >71µm		ASTM D7647	>3	1	1	---
Oil Cleanliness		ISO 4406 (c)	>17/15/12	▲ 17/16/14	▲ 18/17/15	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	▲ MILKY	▲ MILKY	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.05	▲ 0.2%	▲ 0.2%	---

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<1	2	---
Boron	ppm	ASTM D5185m		1	<1	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		0	0	---
Manganese	ppm	ASTM D5185m		<1	<1	---
Magnesium	ppm	ASTM D5185m		4	4	---
Calcium	ppm	ASTM D5185m		69	60	---
Phosphorus	ppm	ASTM D5185m		365	331	---
Zinc	ppm	ASTM D5185m		479	461	---
Sulfur	ppm	ASTM D5185m		985	1056	---
Acid Number (AN)	mg KOH/g	ASTM D8045		0.49	0.57	---
Visc @ 40°C	cSt	ASTM D445		48.0	47.3	---



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ST44740 **Received** : 22 Feb 2024
Lab Number : 06097711 **Tested** : 27 Feb 2024
Unique Number : 10890564 **Diagnosed** : 27 Feb 2024 - Jonathan Hester
Test Package : IND 2 (Additional Tests: KF)

NAUTICAL STRUCTURES
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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)