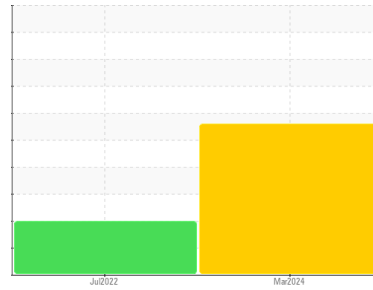


OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Machine Id
4366727 (S/N 1102)

Component
Compressor

Fluid
KAESER SIGMA (OEM) S-460 (--- QTS)

DIAGNOSIS

▲ Recommendation

Oil and filter change at the time of sampling has been noted. We recommend an early resample in 500 hours to monitor this condition.

▲ Wear

The copper level is abnormal.

▲ Contamination

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

● Fluid Condition

The oil viscosity is higher than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		KCPA013753	KCP49586	---
Sample Date	Client Info		25 Mar 2024	19 Jul 2022	---
Machine Age	hrs	Client Info	29848	25638	---
Oil Age	hrs	Client Info	0	9597	---
Oil Changed	Client Info		Changed	Changed	---
Sample Status			ABNORMAL	ABNORMAL	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	9	0	---
Chromium	ppm	ASTM D5185m >10	<1	0	---
Nickel	ppm	ASTM D5185m >3	<1	0	---
Titanium	ppm	ASTM D5185m >3	<1	0	---
Silver	ppm	ASTM D5185m >2	1	<1	---
Aluminum	ppm	ASTM D5185m >10	3	<1	---
Lead	ppm	ASTM D5185m >10	<1	0	---
Copper	ppm	ASTM D5185m >50	▲ 139	37	---
Tin	ppm	ASTM D5185m >10	1	0	---
Vanadium	ppm	ASTM D5185m	<1	0	---
Cadmium	ppm	ASTM D5185m	<1	0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	2	---
Barium	ppm	ASTM D5185m 90	0	0	---
Molybdenum	ppm	ASTM D5185m	<1	0	---
Manganese	ppm	ASTM D5185m	<1	0	---
Magnesium	ppm	ASTM D5185m 90	3	<1	---
Calcium	ppm	ASTM D5185m 2	0	0	---
Phosphorus	ppm	ASTM D5185m	● 571	2	---
Zinc	ppm	ASTM D5185m	● 172	0	---
Sulfur	ppm	ASTM D5185m	5245	17519	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	1	<1	---
Sodium	ppm	ASTM D5185m	3	<1	---
Potassium	ppm	ASTM D5185m >20	2	0	---
Water	%	ASTM D6304 >0.05	▲ 0.067	0.004	---
ppm Water	ppm	ASTM D6304 >500	▲ 673	44.9	---

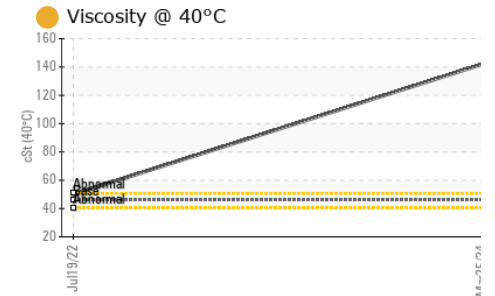
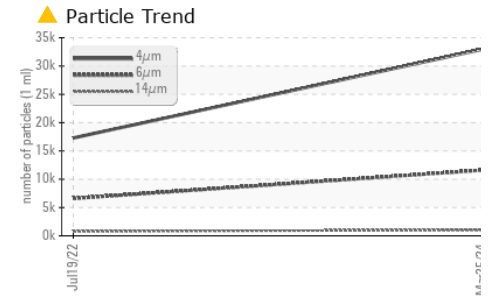
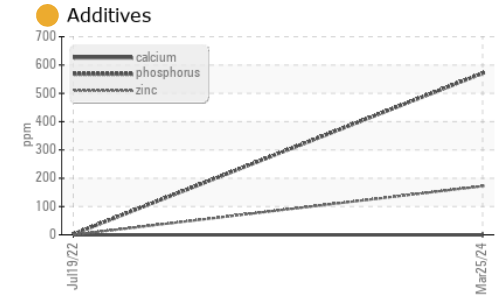
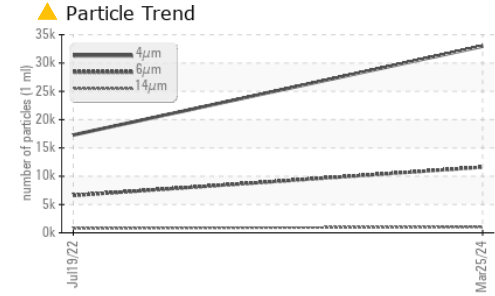
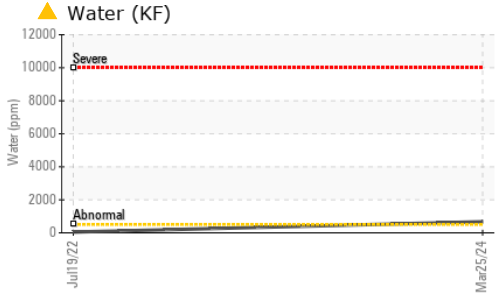
FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		32965	17289	---
Particles >6µm	ASTM D7647 >1300		▲ 11605	▲ 6602	---
Particles >14µm	ASTM D7647 >80		▲ 1016	▲ 785	---
Particles >21µm	ASTM D7647 >20		▲ 250	▲ 166	---
Particles >38µm	ASTM D7647 >4		▲ 12	▲ 9	---
Particles >71µm	ASTM D7647 >3		2	1	---
Oil Cleanliness	ISO 4406 (c) >--/17/13		▲ 22/21/17	▲ 21/20/17	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.4	1.65	0.42	---

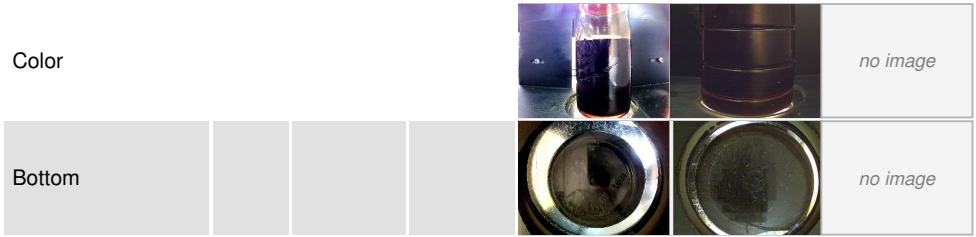
OIL ANALYSIS REPORT



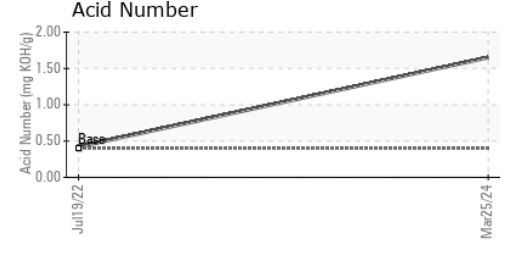
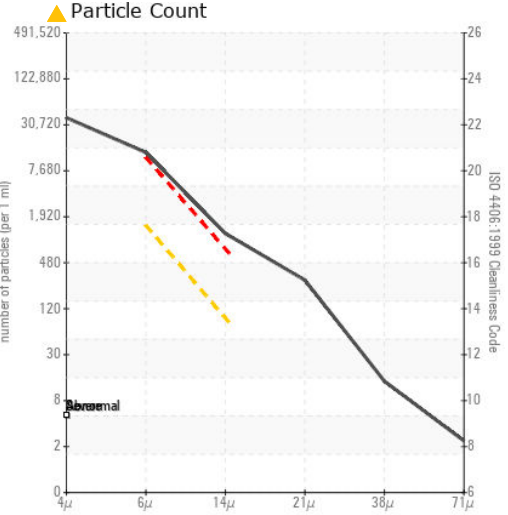
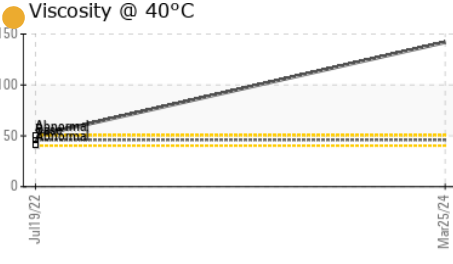
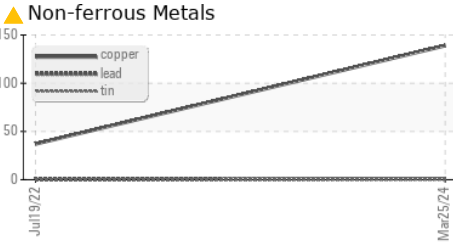
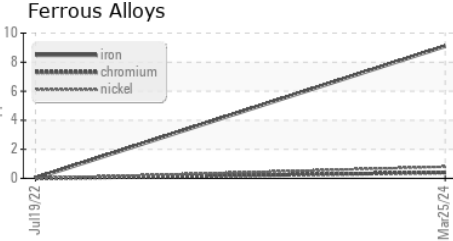
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 46	142	49.8	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
---------------	--------	------------	---------	----------	----------



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCPA013753 **Received** : 29 May 2024
Lab Number : 06194624 **Tested** : 31 May 2024
Unique Number : 11056747 **Diagnosed** : 31 May 2024 - Don Baldrige
Test Package : IND 2 (Additional Tests: KF, PrtCount)

A & C PRODUCTS
 9521 MIDDLEX DR
 SAN ANTONIO, TX
 US 78217
 Contact: Service Manager

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)

T:
F: