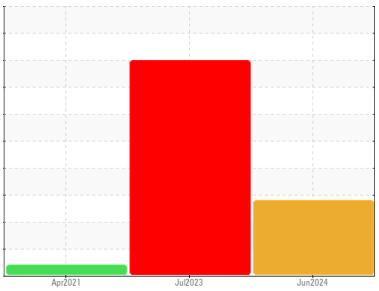
KAESER COMPRESSORS
Built for a lifetime.

OIL ANALYSIS REPORT

Sample Rating Trend



WEAR

Machine Id
KAESER 1653215
Component
Compressor
Fluid
KAESER SIGMA (OEM) M-460 (--- GAL)

DIAGNOSIS

Recommendation
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear
The copper level is abnormal. All other component wear rates are normal.

Contamination
There is a high amount of particulates present in the oil.

Fluid Condition
The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**KCPA017869**	KCPA004405	KCP32295
Sample Date		Client Info		**04 Jun 2024**	12 Jul 2023	19 Apr 2021
Machine Age	hrs	Client Info		**132197**	124336	104867
Oil Age	hrs	Client Info		**0**	0	2000
Oil Changed		Client Info		**Changed**	N/A	Changed
Sample Status				**ABNORMAL**	SEVERE	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	**0**	0	<1
Chromium	ppm	ASTM D5185m	>10	**0**	0	0
Nickel	ppm	ASTM D5185m	>3	**0**	<1	0
Titanium	ppm	ASTM D5185m	>3	**0**	0	0
Silver	ppm	ASTM D5185m	>2	**0**	0	0
Aluminum	ppm	ASTM D5185m	>10	**0**	0	0
Lead	ppm	ASTM D5185m	>10	**0**	0	<1
Copper	ppm	ASTM D5185m	>50	▲ **144**	▲ 328	7
Tin	ppm	ASTM D5185m	>10	**0**	<1	0
Antimony	ppm	ASTM D5185m		**---**	---	0
Vanadium	ppm	ASTM D5185m		**0**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	**0**	0	<1
Barium	ppm	ASTM D5185m	90	**0**	2	20
Molybdenum	ppm	ASTM D5185m	0	**0**	<1	0
Manganese	ppm	ASTM D5185m		**0**	0	<1
Magnesium	ppm	ASTM D5185m	100	**<1**	8	52
Calcium	ppm	ASTM D5185m	0	**0**	7	2
Phosphorus	ppm	ASTM D5185m	0	**<1**	8	18
Zinc	ppm	ASTM D5185m	0	**23**	35	23
Sulfur	ppm	ASTM D5185m	23500	**15170**	13917	17050

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	**5**	19	5
Sodium	ppm	ASTM D5185m		**<1**	0	30
Potassium	ppm	ASTM D5185m	>20	**0**	0	5
Water	%	ASTM D6304	>0.05	**0.007**	0.006	0.021
ppm Water	ppm	ASTM D6304	>500	**77**	63.2	214.6

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		**20721**	11090	---
Particles >6µm		ASTM D7647	>1300	▲ **9212**	▲ 3107	---
Particles >14µm		ASTM D7647	>80	▲ **1953**	▲ 395	---
Particles >21µm		ASTM D7647	>20	▲ **712**	▲ 169	---
Particles >38µm		ASTM D7647	>4	▲ **27**	▲ 14	---
Particles >71µm		ASTM D7647	>3	**2**	0	---
Oil Cleanliness		ISO 4406 (c)	>--/17/13	▲ **22/20/18**	▲ 21/19/16	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	**0.42**	0.43	0.407

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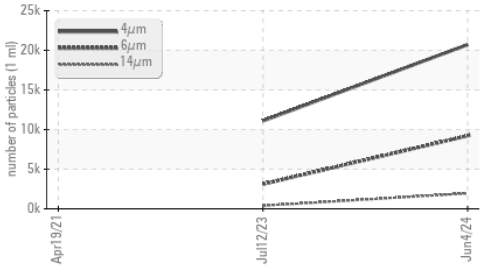
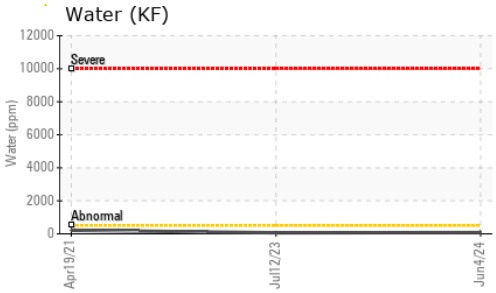
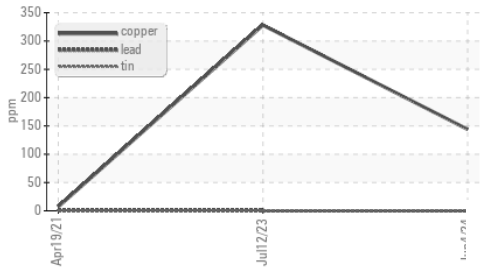
Particle Trend



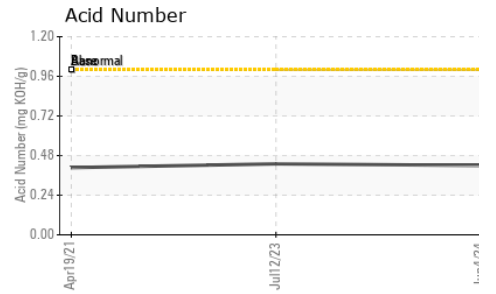
Water (KF)



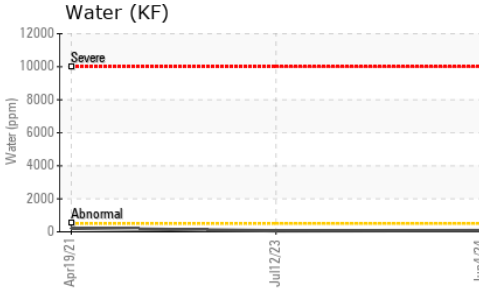
Non-ferrous Metals



Acid Number

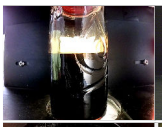
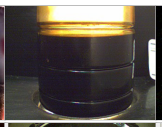
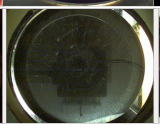
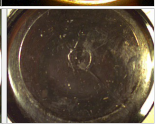


Water (KF)



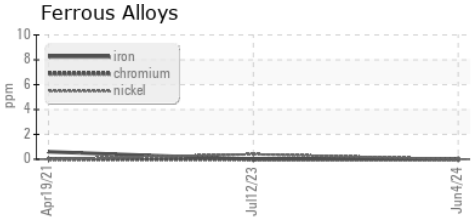
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	▲ MODER
Sand/Dirt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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45	**47.5**	48.0	46.6

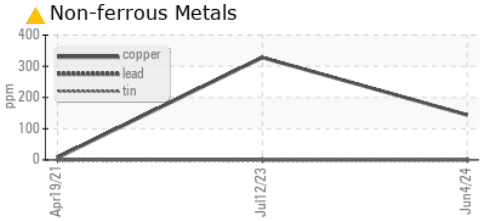
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

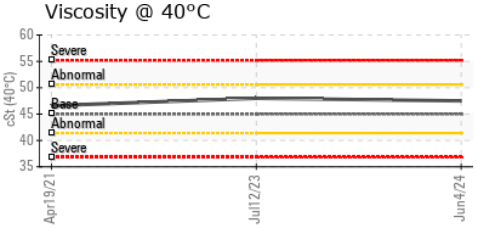
Ferrous Alloys



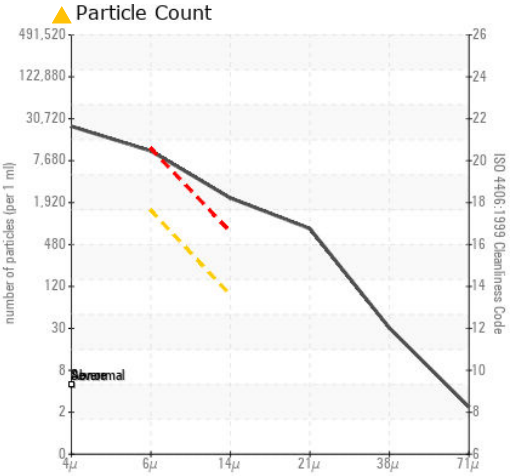
Non-ferrous Metals



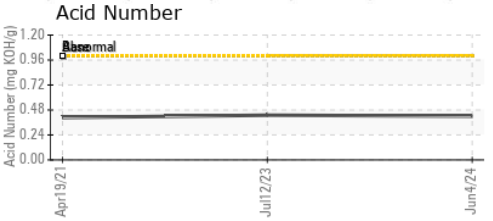
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCPA017869
Lab Number : 06207089
Unique Number : 11074550
Test Package : IND 2 (Additional Tests: KF, PrtCount)

Received : 11 Jun 2024
Tested : 13 Jun 2024
Diagnosed : 13 Jun 2024 - Angela Borella

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)

SUPER STATION CAR WASH
627 CONTRA COSTA BLVD
CONCORD, CA
US 94523
Contact: FRANCISCO
francisco@super-station.com
T:
F: