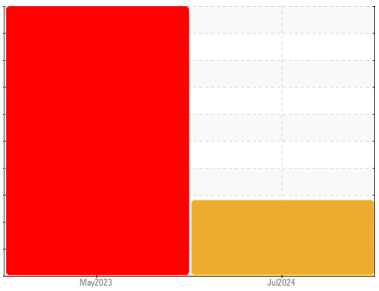
KAESER COMPRESSORS
Built for a lifetime.

OIL ANALYSIS REPORT

Sample Rating Trend



WATER

Machine Id
4645780 (S/N 1052)
Component
Compressor
Fluid
KAESER SIGMA (OEM) M-460 (--- GAL)

DIAGNOSIS

Recommendation
Oil and filter change at the time of sampling has been noted. We were unable to perform a particle count due to a high concentration of particles present in this sample. We recommend an early resample in 500 hours to monitor this condition.

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

Contamination
Moderate concentration of visible dirt/debris present in the oil. There is a light concentration of water present in the oil.

Fluid Condition
The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**KCPA016022**	KCPA001631	---
Sample Date		Client Info		**03 Jul 2024**	17 May 2023	---
Machine Age	hrs	Client Info		**687**	352	---
Oil Age	hrs	Client Info		**427**	0	---
Oil Changed		Client Info		**Changed**	N/A	---
Sample Status				**ABNORMAL**	SEVERE	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	**19**	▲ 192	---
Chromium	ppm	ASTM D5185m	>10	**0**	<1	---
Nickel	ppm	ASTM D5185m	>3	▲ **4**	▲ 9	---
Titanium	ppm	ASTM D5185m	>3	**0**	<1	---
Silver	ppm	ASTM D5185m	>2	**0**	<1	---
Aluminum	ppm	ASTM D5185m	>10	**0**	3	---
Lead	ppm	ASTM D5185m	>10	**0**	2	---
Copper	ppm	ASTM D5185m	>50	**27**	20	---
Tin	ppm	ASTM D5185m	>10	**0**	<1	---
Vanadium	ppm	ASTM D5185m		**0**	<1	---
Cadmium	ppm	ASTM D5185m		**0**	<1	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	**0**	0	---
Barium	ppm	ASTM D5185m	90	**0**	0	---
Molybdenum	ppm	ASTM D5185m	0	**0**	<1	---
Manganese	ppm	ASTM D5185m		**<1**	2	---
Magnesium	ppm	ASTM D5185m	100	**0**	9	---
Calcium	ppm	ASTM D5185m	0	**0**	0	---
Phosphorus	ppm	ASTM D5185m	0	**0**	2	---
Zinc	ppm	ASTM D5185m	0	**16**	112	---
Sulfur	ppm	ASTM D5185m	23500	**18576**	20304	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	**1**	12	---
Sodium	ppm	ASTM D5185m		**3**	3	---
Potassium	ppm	ASTM D5185m	>20	**2**	1	---
Water	%	ASTM D6304	>0.05	▲ **0.298**	▲ 0.101	---
ppm Water	ppm	ASTM D6304	>500	▲ **2980**	▲ 1010	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	**0.38**	0.54	---

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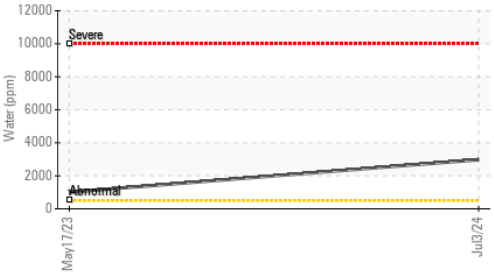
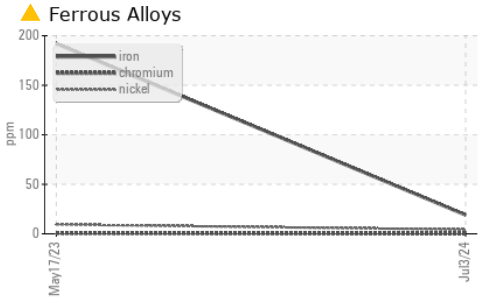
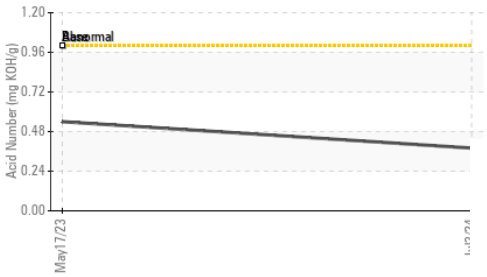
▲ Water (KF)



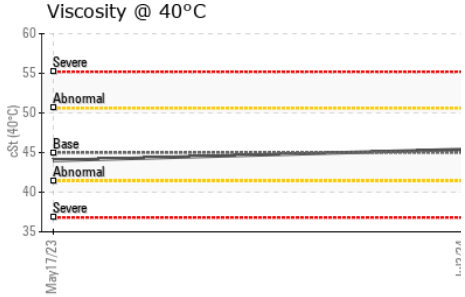
▲ Ferrous Alloys



Acid Number

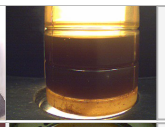
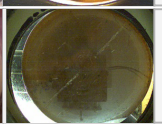


Viscosity @ 40°C



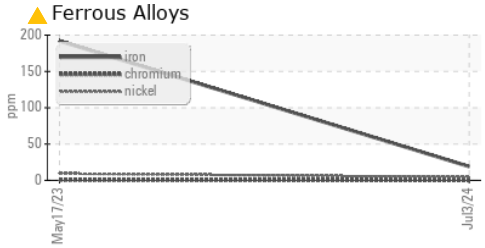
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	---
Silt	scalar	*Visual	NONE	**NONE**	▲ HEAVY	---
Debris	scalar	*Visual	NONE	▲ **MODER**	NONE	---
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	---
Appearance	scalar	*Visual	NORML	**NORML**	NORML	---
Odor	scalar	*Visual	NORML	**NORML**	NORML	---
Emulsified Water	scalar	*Visual	>0.05	▲ **0.2%**	0.2%	---
Free Water	scalar	*Visual		**NEG**	▲ >10%	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45	**45.4**	44.0	---

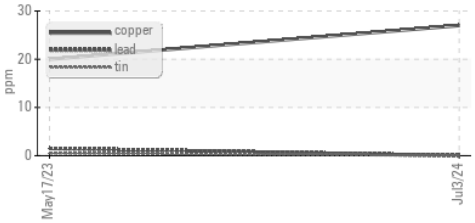
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					*no image*
Bottom					*no image*

GRAPHS

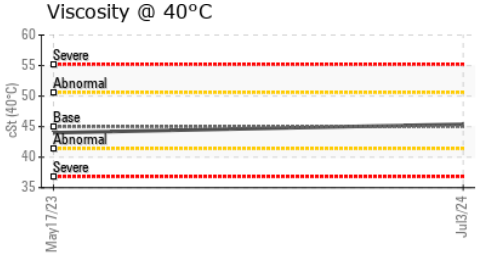
▲ Ferrous Alloys



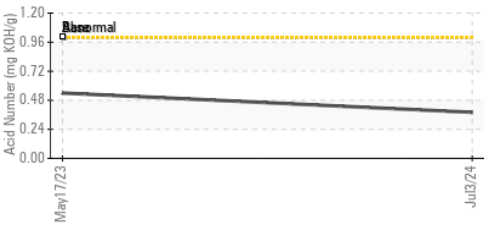
Non-ferrous Metals



Viscosity @ 40°C



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCPA016022 **Received** : 15 Jul 2024
Lab Number : 06235982 **Tested** : 17 Jul 2024
Unique Number : 11124816 **Diagnosed** : 17 Jul 2024 - Don Baldridge
Test Package : IND 2 (Additional Tests: KF, PrtCount)

FLOWERS USA
2663 MARQUIS RD
GARLAND, TX
US 75042
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: