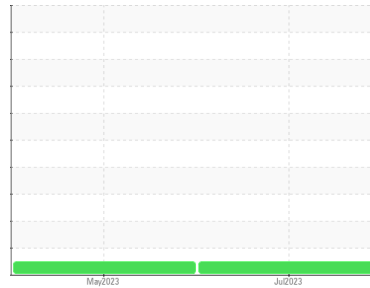


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
KAESER 8644677

Component
Compressor

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Fluid Condition

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

SAMPLE INFORMATION method limit/base current history1 history2

Sample Number	Client Info	KC122885	KC102755	---
Sample Date	Client Info	27 Jul 2023	23 May 2023	---
Machine Age	hrs	Client Info	2424	2063
Oil Age	hrs	Client Info	1535	2063
Oil Changed	Client Info	Changed	Not Changd	---
Sample Status		NORMAL	NORMAL	---

WEAR METALS method limit/base current history1 history2

Iron	ppm	ASTM D5185m	>50	<1	<1	---
Chromium	ppm	ASTM D5185m	>10	0	<1	---
Nickel	ppm	ASTM D5185m	>3	0	0	---
Titanium	ppm	ASTM D5185m	>3	0	0	---
Silver	ppm	ASTM D5185m	>2	0	<1	---
Aluminum	ppm	ASTM D5185m	>10	0	<1	---
Lead	ppm	ASTM D5185m	>10	0	<1	---
Copper	ppm	ASTM D5185m	>50	3	2	---
Tin	ppm	ASTM D5185m	>10	0	<1	---
Vanadium	ppm	ASTM D5185m		0	0	---
Cadmium	ppm	ASTM D5185m		0	0	---

ADDITIVES method limit/base current history1 history2

Boron	ppm	ASTM D5185m		0	0	---
Barium	ppm	ASTM D5185m	90	0	0	---
Molybdenum	ppm	ASTM D5185m		0	<1	---
Manganese	ppm	ASTM D5185m		0	<1	---
Magnesium	ppm	ASTM D5185m	90	75	85	---
Calcium	ppm	ASTM D5185m	2	0	0	---
Phosphorus	ppm	ASTM D5185m		<1	0	---
Zinc	ppm	ASTM D5185m		0	8	---

CONTAMINANTS method limit/base current history1 history2

Silicon	ppm	ASTM D5185m	>25	2	1	---
Sodium	ppm	ASTM D5185m		20	19	---
Potassium	ppm	ASTM D5185m	>20	8	8	---
Water	%	ASTM D6304	>0.05	0.037	0.024	---
ppm Water	ppm	ASTM D6304	>500	376.4	245.1	---

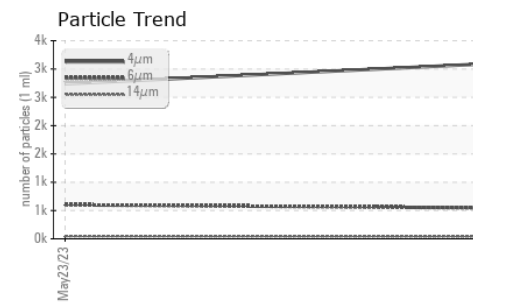
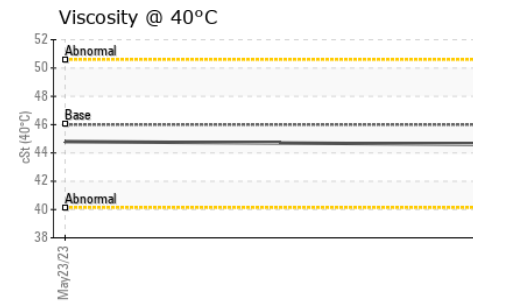
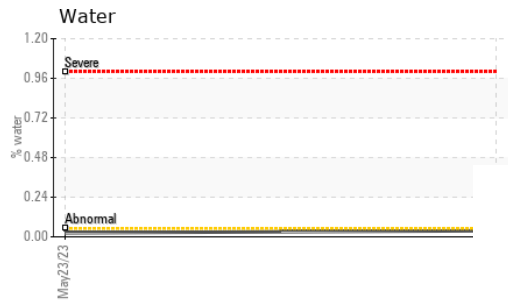
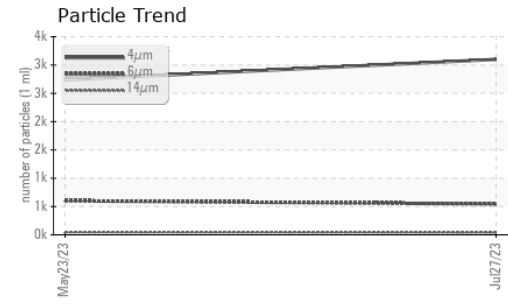
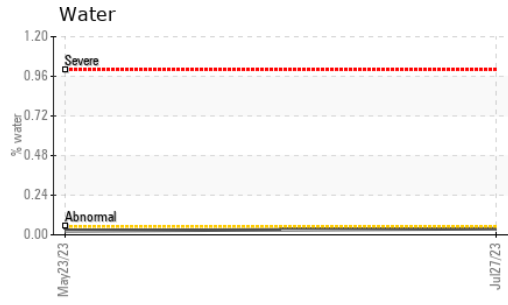
FLUID CLEANLINESS method limit/base current history1 history2

Particles >4µm		ASTM D7647		3099	2739	---
Particles >6µm		ASTM D7647	>1300	544	601	---
Particles >14µm		ASTM D7647	>80	43	47	---
Particles >21µm		ASTM D7647	>20	14	10	---
Particles >38µm		ASTM D7647	>4	1	1	---
Particles >71µm		ASTM D7647	>3	0	0	---
Oil Cleanliness		ISO 4406 (c)	>--/17/13	19/16/13	19/16/13	---

FLUID DEGRADATION method limit/base current history1 history2

Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	0.36	0.30	---
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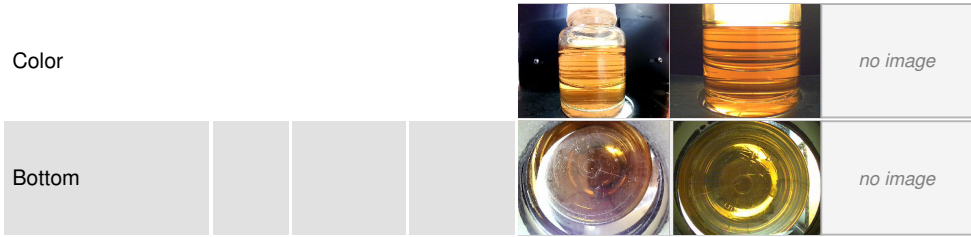
OIL ANALYSIS REPORT



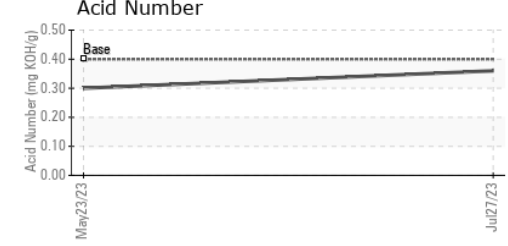
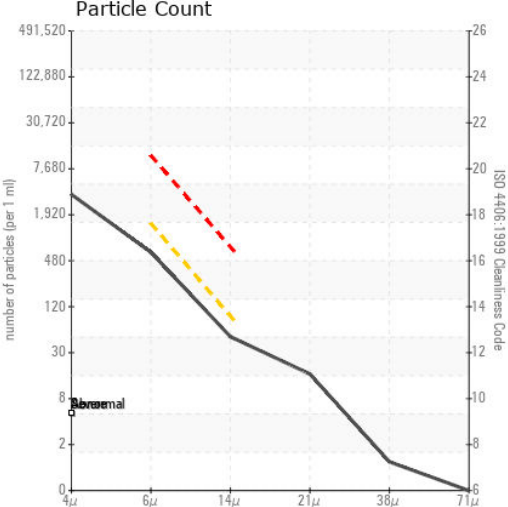
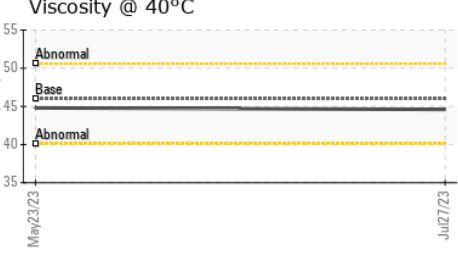
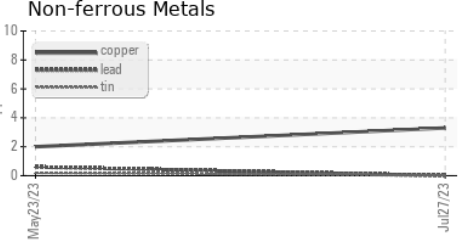
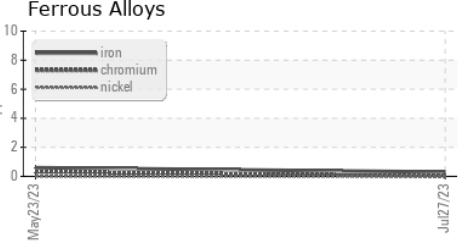
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*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	44.6	44.8

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KC122885 **Received** : 21 Aug 2023
Lab Number : 05930388 **Diagnosed** : 23 Aug 2023
Unique Number : 10615659 **Diagnostician** : Jonathan Hester
Test Package : IND 2

AMAZON FULFILLMENT CENTER TPA4
 8990 N US HWY 301
 TEMPLE TERRACE, FL
 US 33637
 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)