



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
FXI
Machine Id
KAESER 1878 - FXI
Component
Compressor
Fluid
KAESER SIGMA (OEM) S-460 (--- GAL)

RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		APCI2275178	APCI2275180	---
Sample Date		Client Info		12 Feb 2024	14 Nov 2023	---
Machine Age	hrs	Client Info		3925	1768	---
Oil Age	hrs	Client Info		3925	1768	---
Filter Age	hrs	Client Info		3925	1768	---
Oil Changed		Client Info		Not Chngd	N/A	---
Filter Changed		Client Info		Not Chngd	Not Chngd	---
Sample Status				ABNORMAL	ATTENTION	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	0	0	---
Chromium	ppm	ASTM D5185m	>10	<1	0	---
Nickel	ppm	ASTM D5185m	>3	0	0	---
Titanium	ppm	ASTM D5185m	>3	0	0	---
Silver	ppm	ASTM D5185m	>2	0	0	---
Aluminum	ppm	ASTM D5185m	>10	1	0	---
Lead	ppm	ASTM D5185m	>10	0	0	---
Copper	ppm	ASTM D5185m	>50	4	2	---
Tin	ppm	ASTM D5185m	>10	0	0	---
Vanadium	ppm	ASTM D5185m		0	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

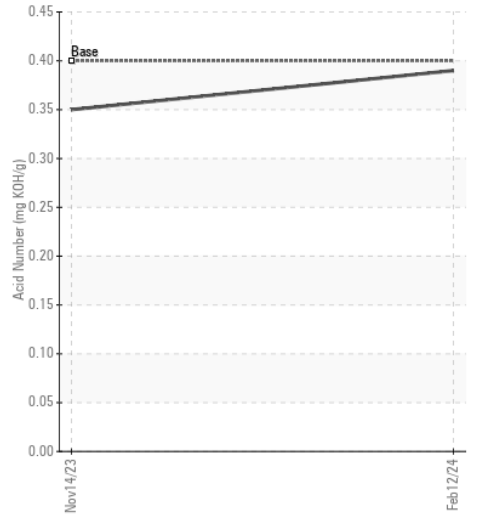
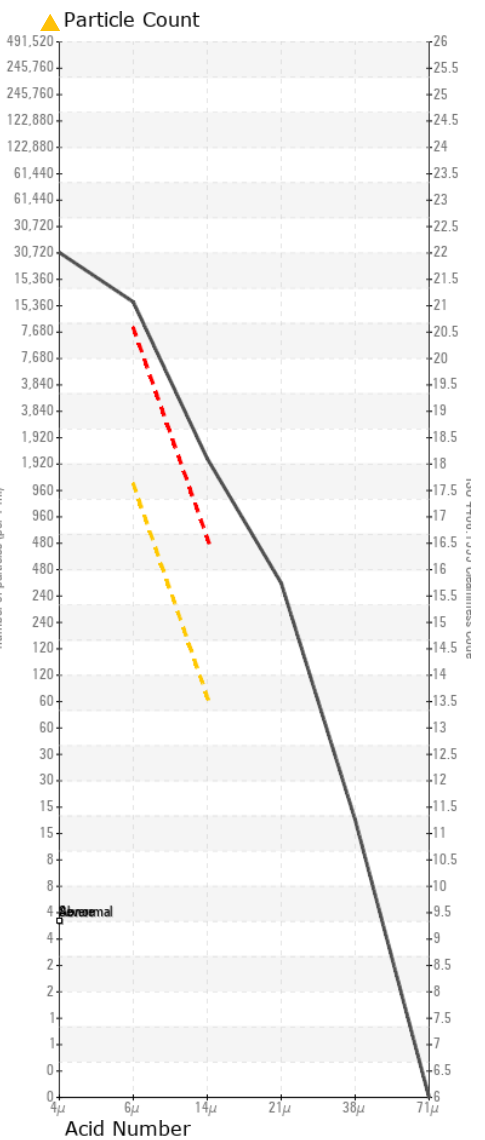
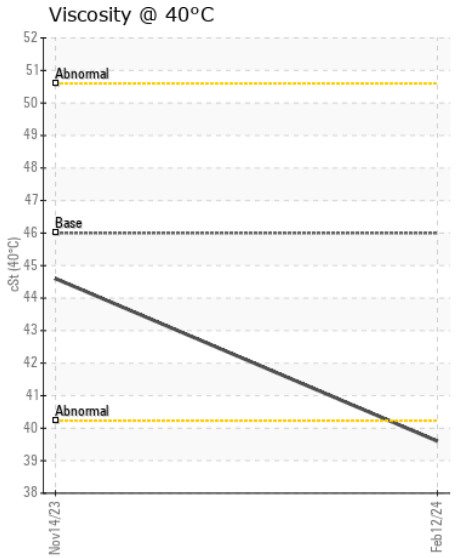
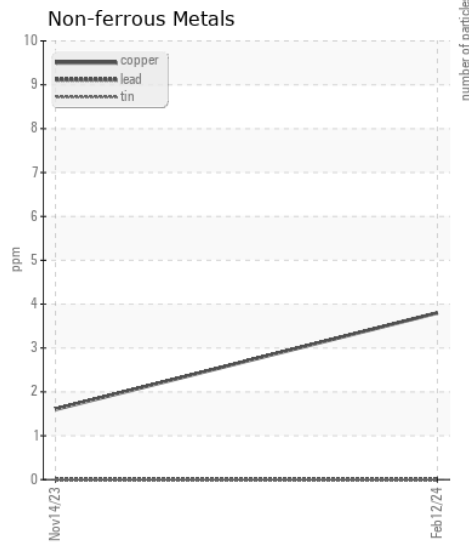
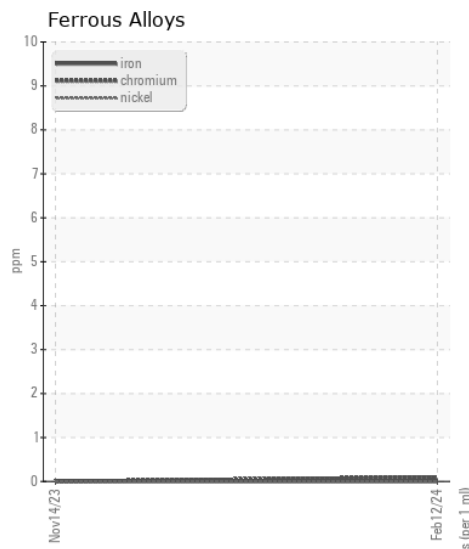
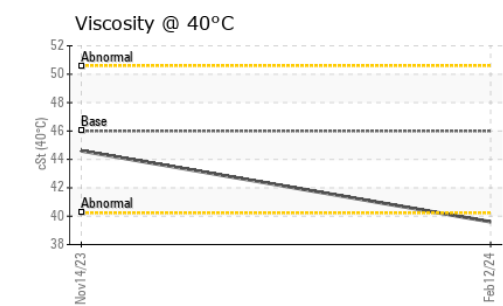
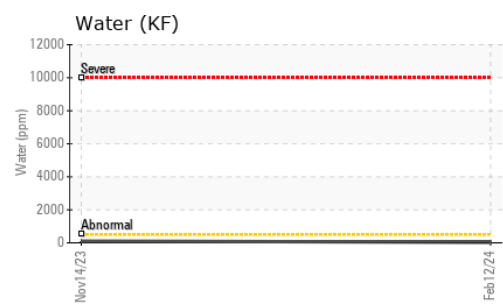
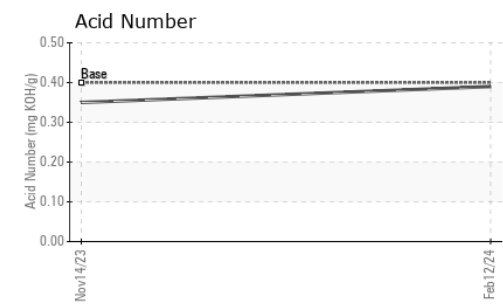
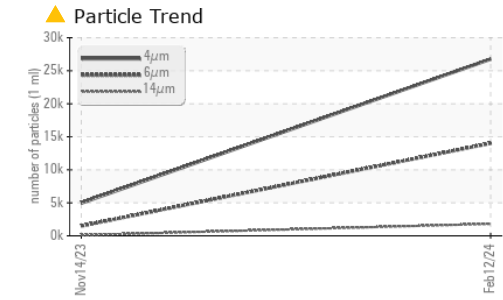
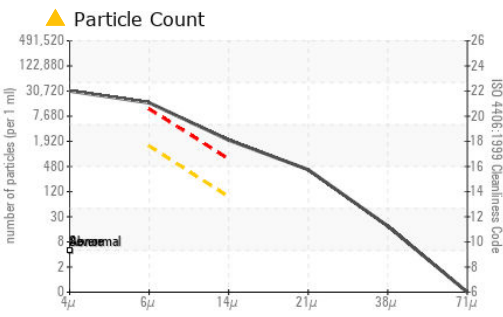
There is a high amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>25	2	1	---
Potassium	ppm	ASTM D5185m	>20	3	7	---
Water	%	ASTM D6304	>0.05	0.003	0.010	---
ppm Water	ppm	ASTM D6304	>500	30	107.9	---
Particles >4µm		ASTM D7647		26764	4954	---
Particles >6µm		ASTM D7647	>1300	▲ 14007	▲ 1492	---
Particles >14µm		ASTM D7647	>80	▲ 1803	▲ 95	---
Particles >21µm		ASTM D7647	>20	▲ 354	19	---
Particles >38µm		ASTM D7647	>4	▲ 16	1	---
Particles >71µm		ASTM D7647	>3	0	0	---
Oil Cleanliness		ISO 4406 (c)	>-/17/13	▲ 22/21/18	▲ 19/18/14	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	LIGHT	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	NEG	NEG	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		0	11	---
Boron	ppm	ASTM D5185m		0	0	---
Barium	ppm	ASTM D5185m	90	2	0	---
Molybdenum	ppm	ASTM D5185m		0	0	---
Manganese	ppm	ASTM D5185m		0	0	---
Magnesium	ppm	ASTM D5185m	90	8	9	---
Calcium	ppm	ASTM D5185m	2	<1	0	---
Phosphorus	ppm	ASTM D5185m		0	0	---
Zinc	ppm	ASTM D5185m		11	0	---
Sulfur	ppm	ASTM D5185m		15208	17013	---
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	0.39	0.35	---
Visc @ 40°C	cSt	ASTM D445	46	39.6	44.6	---



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : APC12275178 **Received** : 14 Feb 2024
Lab Number : 06089598 **Tested** : 15 Feb 2024
Unique Number : 10877043 **Diagnosed** : 16 Feb 2024 - Jonathan Hester
Test Package : IND 2 (Additional Tests: KF, PrtCount)

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 US 18195
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Certificate L2367
 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)