



Built for a lifetime™

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
KAESER SX 7.5T 6225671 (S/N 1003)

Component
Compressor

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

RECOMMENDATION

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KCPA003590	KCP11514	---
Sample Date		Client Info		21 Aug 2023	02 Feb 2019	---
Machine Age	hrs	Client Info		8242	528	---
Oil Age	hrs	Client Info		0	247	---
Filter Age	hrs	Client Info		0	247	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				ABNORMAL	ABNORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	0	2	---
Chromium	ppm	ASTM D5185m	>10	0	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	<1	---
Lead	ppm	ASTM D5185m	>10	0	<1	---
Copper	ppm	ASTM D5185m	>50	20	2	---
Tin	ppm	ASTM D5185m	>10	<1	0	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

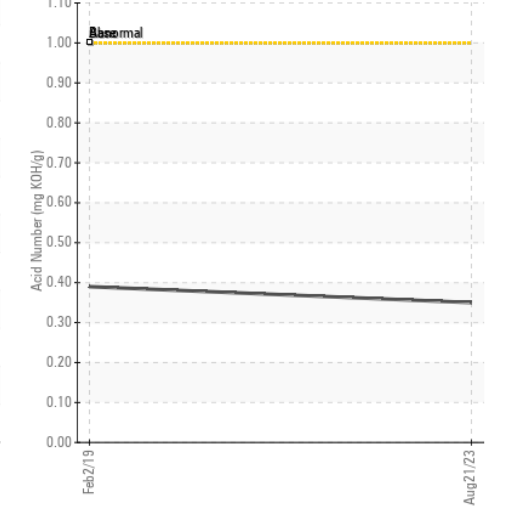
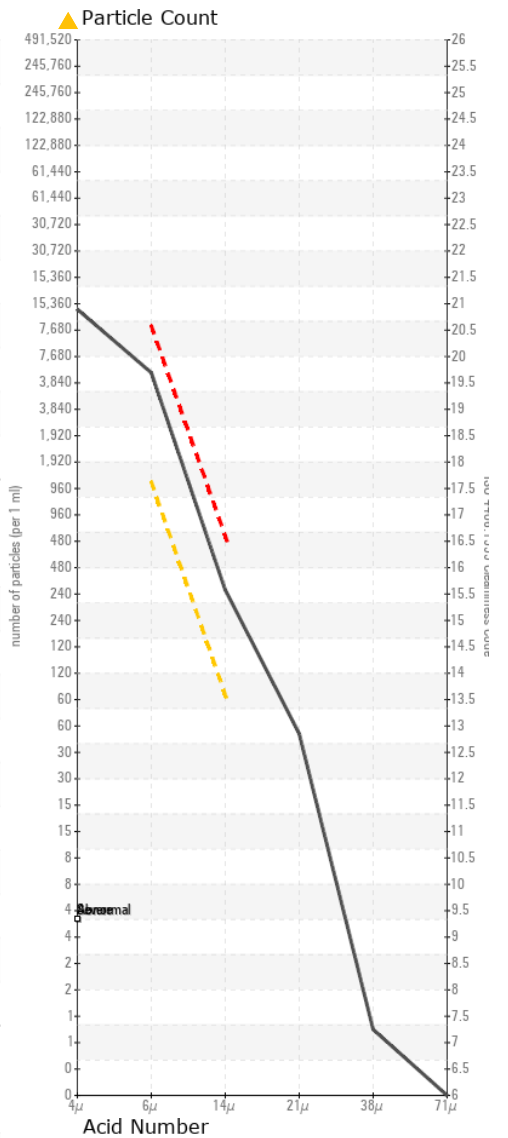
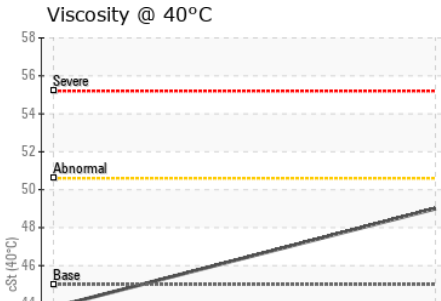
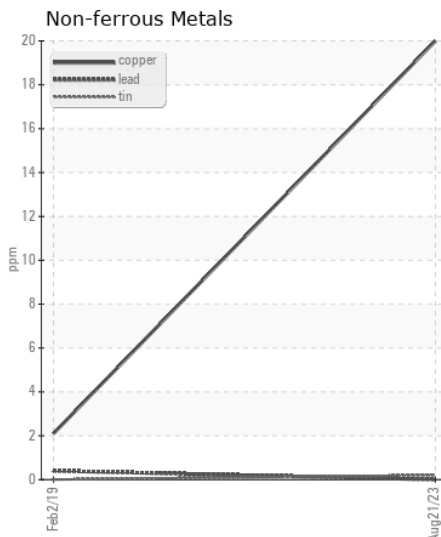
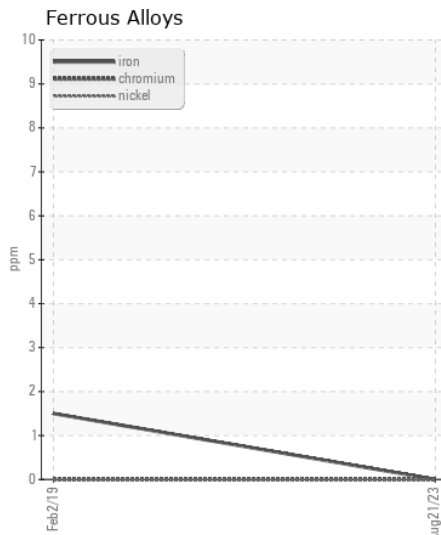
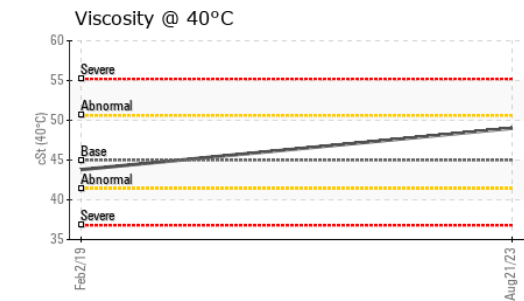
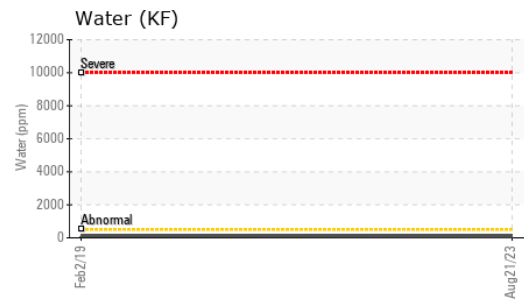
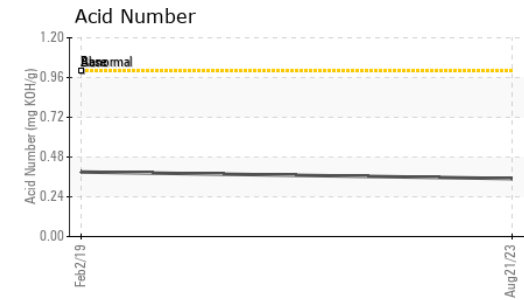
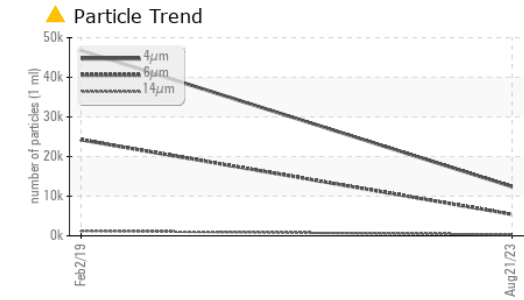
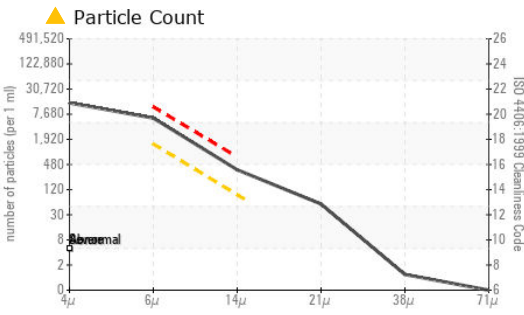
There is a high amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>25	<1	<1	---
Potassium	ppm	ASTM D5185m	>20	<1	2	---
Water	%	ASTM D6304	>0.05	0.008	0.013	---
ppm Water	ppm	ASTM D6304	>500	89.5	130	---
Particles >4µm		ASTM D7647		12407	46773	---
Particles >6µm		ASTM D7647	>1300	▲ 5408	▲ 24249	---
Particles >14µm		ASTM D7647	>80	▲ 315	▲ 1227	---
Particles >21µm		ASTM D7647	>20	▲ 48	▲ 94	---
Particles >38µm		ASTM D7647	>4	1	3	---
Particles >71µm		ASTM D7647	>3	0	0	---
Oil Cleanliness		ISO 4406 (c)	≥-/17/13	▲ 21/20/15	▲ 22/17	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	LIGHT	VLITE	---
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	15	---
Boron	ppm	ASTM D5185m	0	0	<1	---
Barium	ppm	ASTM D5185m	90	<1	10	---
Molybdenum	ppm	ASTM D5185m	0	0	0	---
Manganese	ppm	ASTM D5185m		0	<1	---
Magnesium	ppm	ASTM D5185m	100	0	73	---
Calcium	ppm	ASTM D5185m	0	0	2	---
Phosphorus	ppm	ASTM D5185m	0	<1	3	---
Zinc	ppm	ASTM D5185m	0	0	8	---
Sulfur	ppm	ASTM D5185m	23500	19693	23134	---
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.35	0.390	---
Visc @ 40°C	cSt	ASTM D445	45	49.0	43.8	---



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCPA003590 **Received** : 30 Aug 2023
Lab Number : 05938312 **Diagnosed** : 31 Aug 2023
Unique Number : 10628924 **Diagnostician** : Doug Bogart
Test Package : IND 2 (Additional Tests: KF, PrtCount)

AQUA HOT
 7501 MILLER DR
 FREDERICK, CO
 US 80504
 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)

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F: