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OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
KAESER 6723197
 Component
Compressor
 Fluid
KAESER SIGMA (OEM) M-460 (--- GAL)

RECOMMENDATION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KCP40037D	KCP50493	KCP11847
Sample Date		Client Info		15 Sep 2023	11 Oct 2022	05 Oct 2021
Machine Age	hrs	Client Info		4348	4217	3129
Oil Age	hrs	Client Info		131	1088	1106
Filter Age	hrs	Client Info		131	1088	1106
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Element	UOM	Method	Limit/Abn	Current	History1	History2
Iron	ppm	ASTM D5185m	>50	<1	<1	<1
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>3	<1	0	0
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>10	0	<1	2
Lead	ppm	ASTM D5185m	>10	0	0	<1
Copper	ppm	ASTM D5185m	>50	1	6	9
Tin	ppm	ASTM D5185m	>10	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

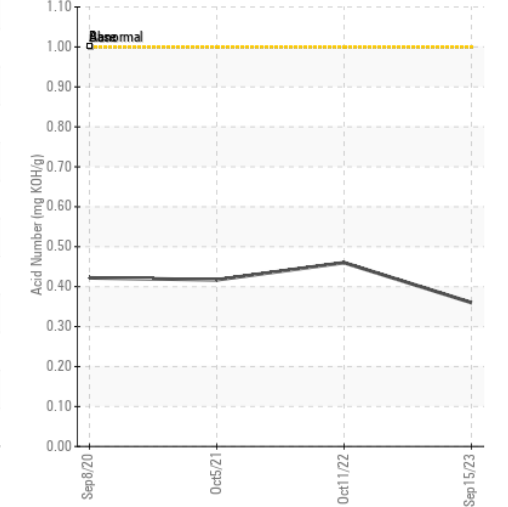
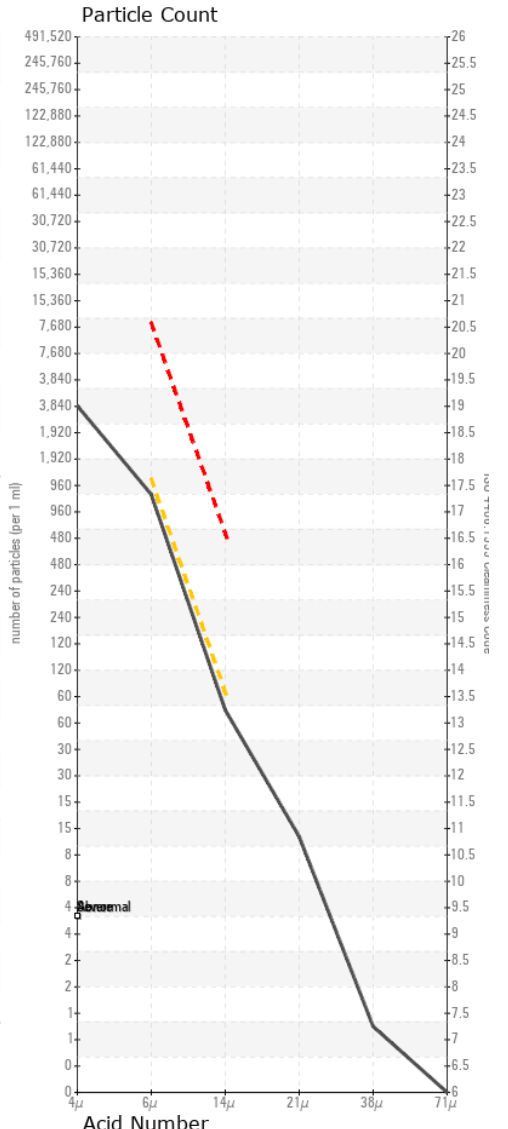
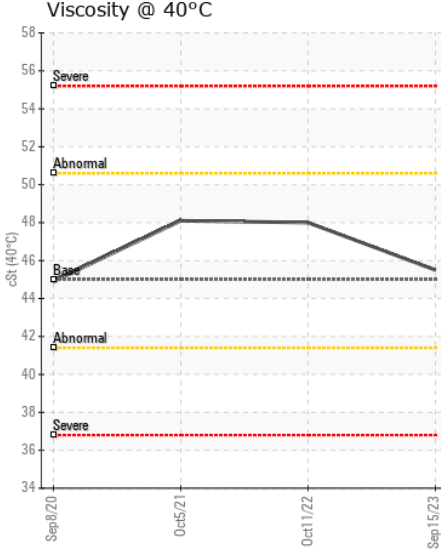
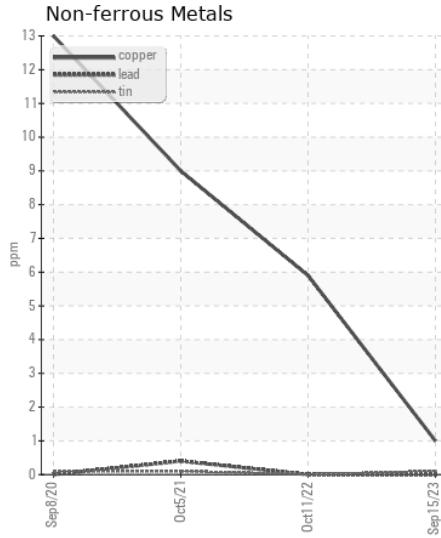
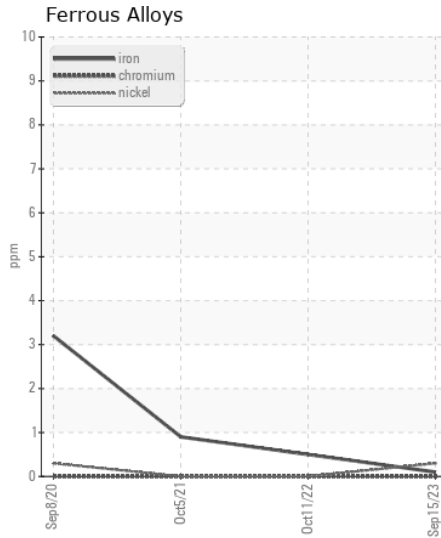
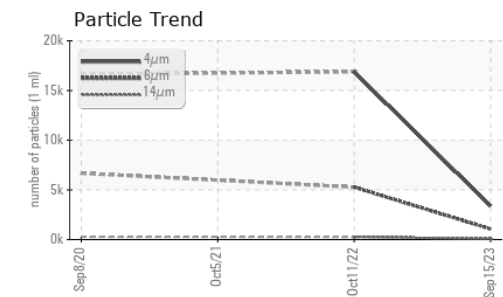
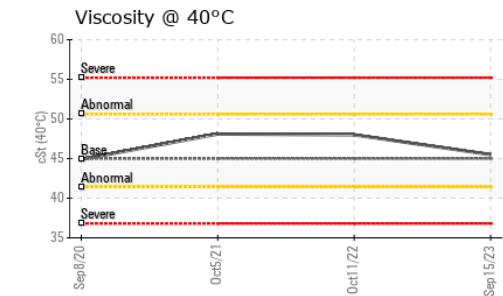
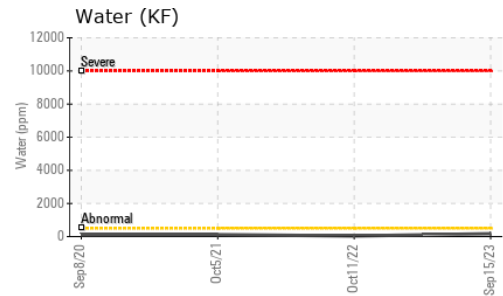
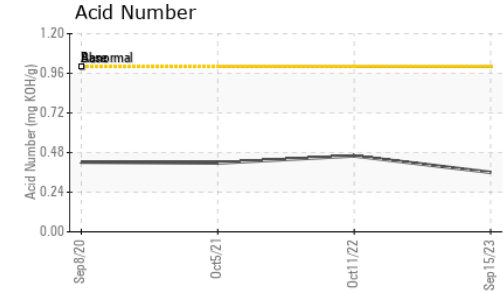
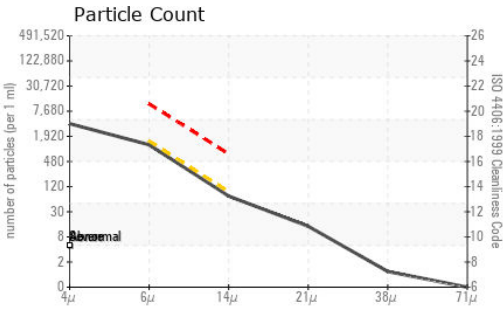
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>25	<1	<1	2
Potassium	ppm	ASTM D5185m	>20	2	0	<1
Water	%	ASTM D6304	>0.05	0.017	0.003	0.011
ppm Water	ppm	ASTM D6304	>500	173.6	36.5	119.6
Particles >4µm		ASTM D7647		3374	16886	---
Particles >6µm		ASTM D7647	>1300	1056	▲ 5271	---
Particles >14µm		ASTM D7647	>80	63	▲ 273	---
Particles >21µm		ASTM D7647	>20	12	▲ 56	---
Particles >38µm		ASTM D7647	>4	1	2	---
Particles >71µm		ASTM D7647	>3	0	0	---
Oil Cleanliness		ISO 4406 (c)	---/17/13	19/17/13	▲ 21/20/15	---
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
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

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		7	15	7
Boron	ppm	ASTM D5185m	0	0	0	<1
Barium	ppm	ASTM D5185m	90	74	21	8
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m	100	85	51	38
Calcium	ppm	ASTM D5185m	0	3	1	0
Phosphorus	ppm	ASTM D5185m	0	2	2	5
Zinc	ppm	ASTM D5185m	0	2	12	2
Sulfur	ppm	ASTM D5185m	23500	20421	22516	18515
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.36	0.46	0.417
Visc @ 40°C	cSt	ASTM D445	45	45.5	48.0	48.1



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCP40037D **Received** : 21 Sep 2023
Lab Number : 05957675 **Tested** : 22 Sep 2023
Unique Number : 10658888 **Diagnosed** : 22 Sep 2023 - Doug Bogart
Test Package : IND 2 (Additional Tests: KF, PrtCount)

GLAZERS WINE & SPIRITS
 22800 E 19TH AVE
 AURORA, CO
 US 80019
 Contact: Service Manager

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)