



Built for a lifetime™

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
KAESER BSD 50 4914154 (S/N 1103)

Component
Compressor

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

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KCPA003720	KCP51262	KCP27694
Sample Date		Client Info		18 Sep 2023	06 Jun 2022	29 Mar 2021
Machine Age	hrs	Client Info		29760	25958	22527
Oil Age	hrs	Client Info		0	3431	1199
Filter Age	hrs	Client Info		0	3431	1199
Oil Changed		Client Info		N/A	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	ATTENTION

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<1	<1	0
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	<1	0
Aluminum	ppm	ASTM D5185m	>10	0	<1	0
Lead	ppm	ASTM D5185m	>10	0	0	<1
Copper	ppm	ASTM D5185m	>50	11	10	8
Tin	ppm	ASTM D5185m	>10	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

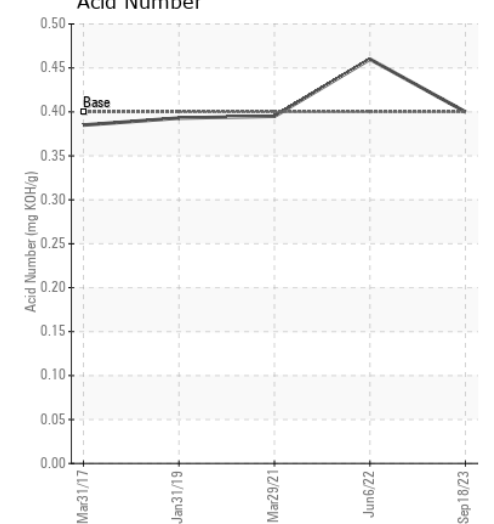
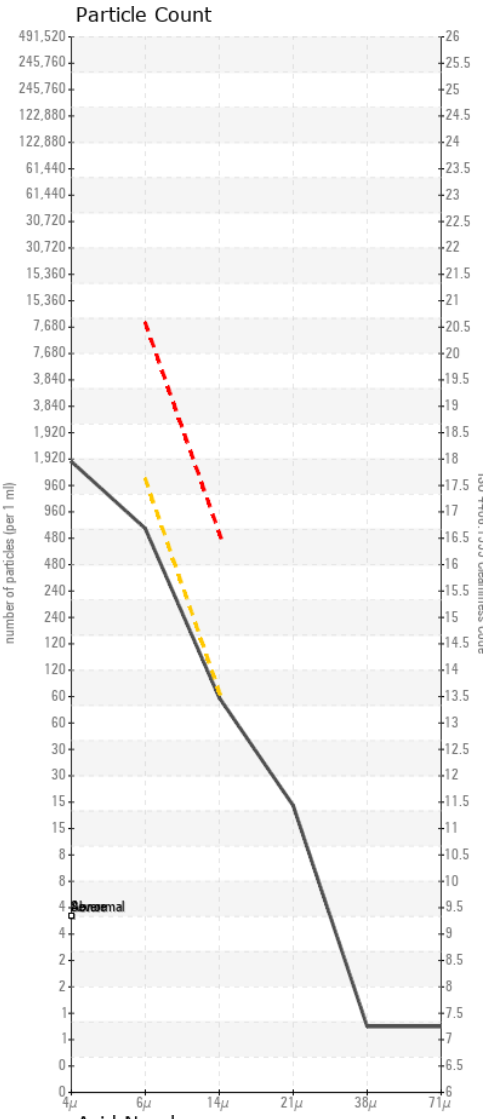
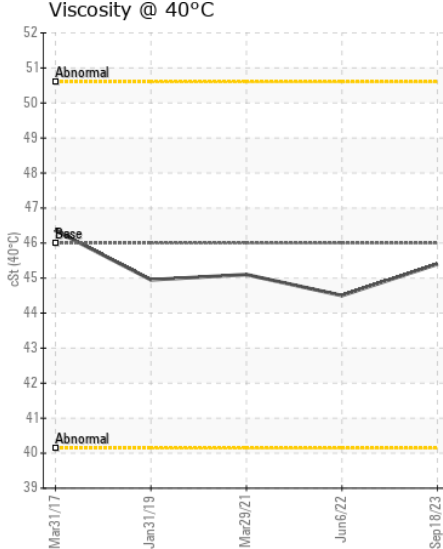
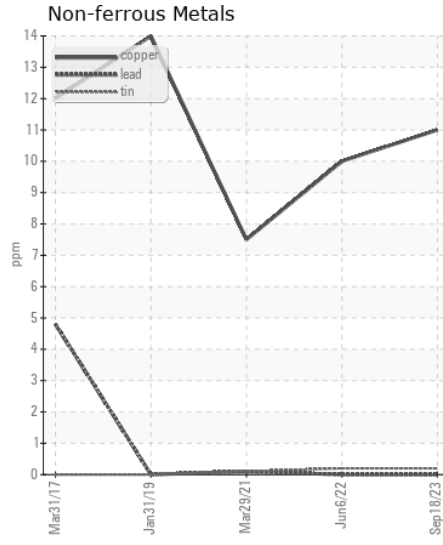
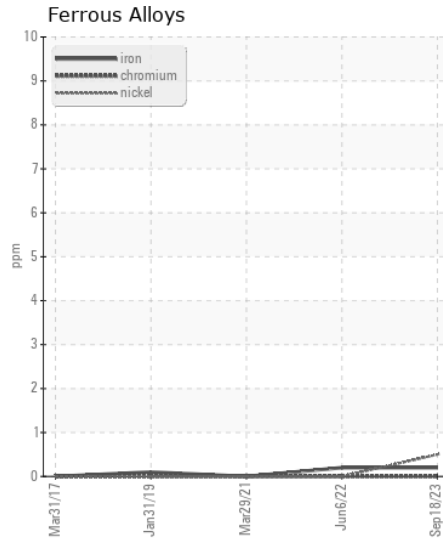
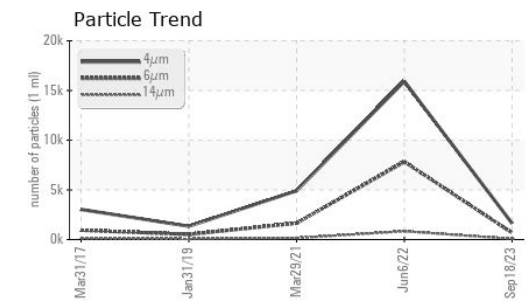
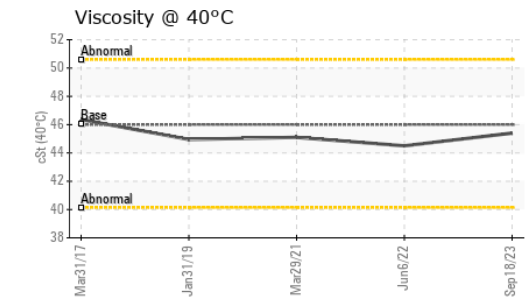
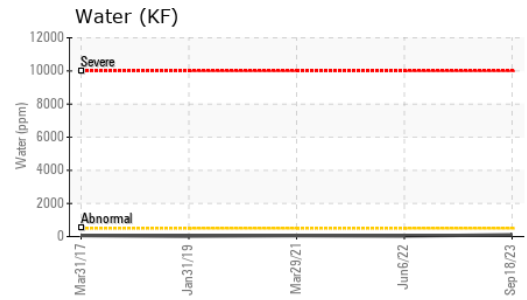
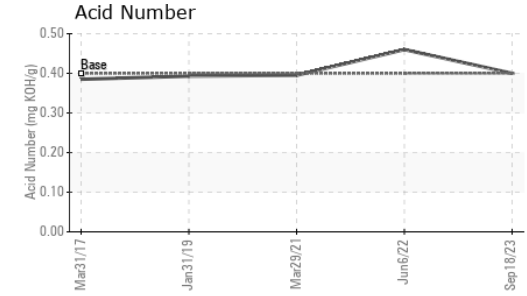
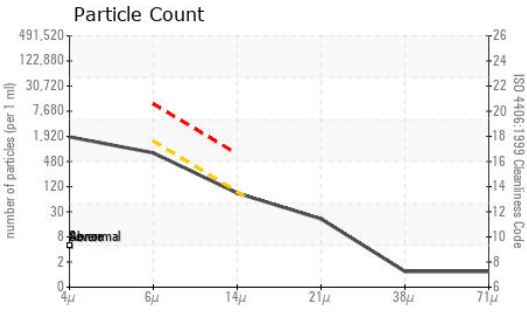
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<1	<1	1
Potassium	ppm	ASTM D5185m	>20	<1	<1	0
Water	%	ASTM D6304	>0.05	0.010	0.003	0.005
ppm Water	ppm	ASTM D6304	>500	104.8	33.8	52.7
Particles >4µm		ASTM D7647		1628	15919	4910
Particles >6µm		ASTM D7647	>1300	676	▲ 7833	▲ 1649
Particles >14µm		ASTM D7647	>80	74	▲ 838	▲ 151
Particles >21µm		ASTM D7647	>20	18	▲ 142	▲ 42
Particles >38µm		ASTM D7647	>4	1	2	2
Particles >71µm		ASTM D7647	>3	1	0	0
Oil Cleanliness		ISO 4406 (c)	:-/17/13	18/17/13	▲ 21/20/17	▲ 18/14
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	NONE
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		0	0	0
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m	90	0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	90	2	1	1
Calcium	ppm	ASTM D5185m	2	0	0	0
Phosphorus	ppm	ASTM D5185m		0	2	3
Zinc	ppm	ASTM D5185m		<1	0	0
Sulfur	ppm	ASTM D5185m		19724	17255	15468
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	0.40	0.46	0.395
Visc @ 40°C	cSt	ASTM D445	46	45.4	44.5	45.1



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCPA003720 **Received** : 06 Oct 2023
Lab Number : 05971470 **Diagnosed** : 10 Oct 2023
Unique Number : 10683420 **Diagnostician** : Don Baldridge
Test Package : IND 2 (Additional Tests: KF, PrtCount)

COMMERCE CITY GRAIN
 4600 E 64TH AVE
 COMMERCE CITY, CO
 US 80022
 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: