KAESER COMPRESSORS
Built for a lifetime.

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
KAESER BSD 50 5248326 (S/N 1335)
Component
Compressor
Fluid
KAESER SIGMA (OEM) M-460 (--- GAL)

RECOMMENDATION

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

WEAR

All component wear rates are normal.

CONTAMINATION

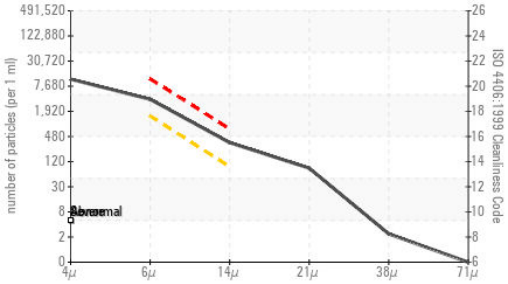
There is a moderate amount of particulates present in the oil.

FLUID CONDITION

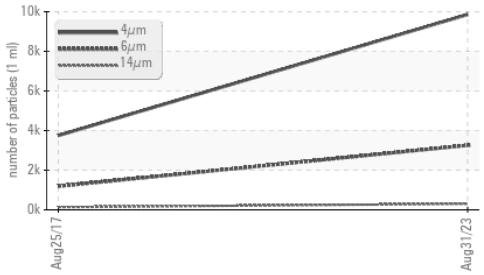
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KCPA003637	KCP01960	---
Sample Date		Client Info		31 Aug 2023	25 Aug 2017	---
Machine Age	hrs	Client Info		31107	6840	---
Oil Age	hrs	Client Info		0	1480	---
Filter Age	hrs	Client Info		0	1480	---
Oil Changed		Client Info		N/A	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				ABNORMAL	ATTENTION	---
Iron	ppm	ASTM D5185m	>50	<1	<1	---
Chromium	ppm	ASTM D5185m	>10	0	0	---
Nickel	ppm	ASTM D5185m	>3	<1	0	---
Titanium	ppm	ASTM D5185m	>3	0	0	---
Silver	ppm	ASTM D5185m	>2	0	0	---
Aluminum	ppm	ASTM D5185m	>10	0	<1	---
Lead	ppm	ASTM D5185m	>10	0	0	---
Copper	ppm	ASTM D5185m	>50	4	<1	---
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	---
Silicon	ppm	ASTM D5185m	>25	1	<1	---
Potassium	ppm	ASTM D5185m	>20	2	7	---
Water	%	ASTM D6304	>0.05	0.004	0.025	---
ppm Water	ppm	ASTM D6304	>500	47.8	250	---
Particles >4µm		ASTM D7647		9861	3751	---
Particles >6µm		ASTM D7647	>1300	▲ 3259	1189	---
Particles >14µm		ASTM D7647	>80	▲ 301	▲ 132	---
Particles >21µm		ASTM D7647	>20	▲ 74	▲ 39	---
Particles >38µm		ASTM D7647	>4	2	▲ 8	---
Particles >71µm		ASTM D7647	>3	0	▲ 7	---
Oil Cleanliness		ISO 4406 (c)	>--/17/13	▲ 20/19/15	▲ 17/14	---
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	---
Sodium	ppm	ASTM D5185m		4	19	---
Boron	ppm	ASTM D5185m	0	0	0	---
Barium	ppm	ASTM D5185m	90	0	80	---
Molybdenum	ppm	ASTM D5185m	0	0	0	---
Manganese	ppm	ASTM D5185m		0	0	---
Magnesium	ppm	ASTM D5185m	100	8	90	---
Calcium	ppm	ASTM D5185m	0	<1	3	---
Phosphorus	ppm	ASTM D5185m	0	1	1	---
Zinc	ppm	ASTM D5185m	0	17	4	---
Sulfur	ppm	ASTM D5185m	23500	21469	18912	---
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.43	0.395	---
Visc @ 40°C	cSt	ASTM D445	45	47.5	45.19	---

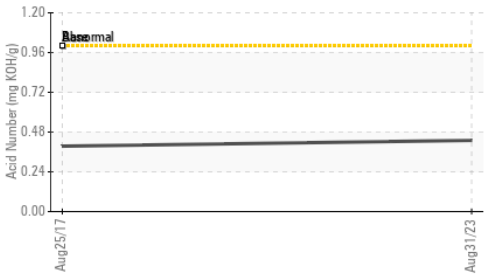
Particle Count



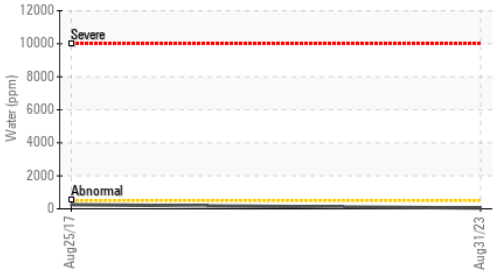
Particle Trend



Acid Number

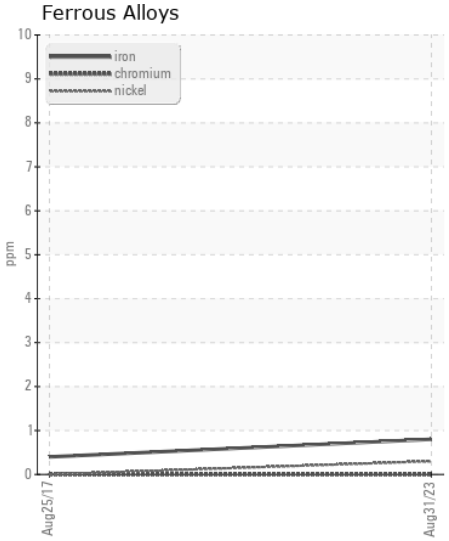


Water (KF)

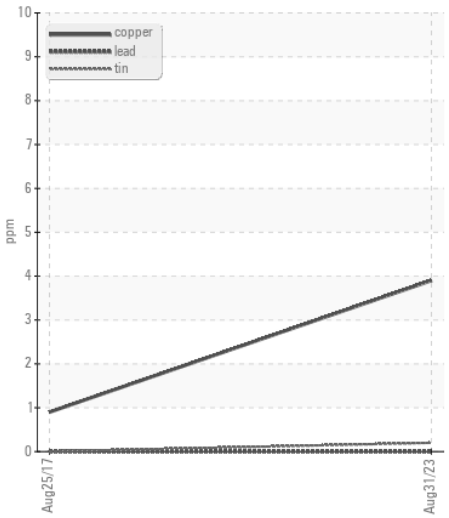


Viscosity @ 40°C

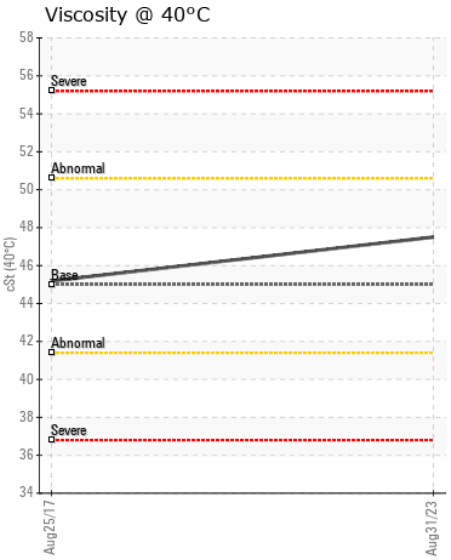
Ferrous Alloys



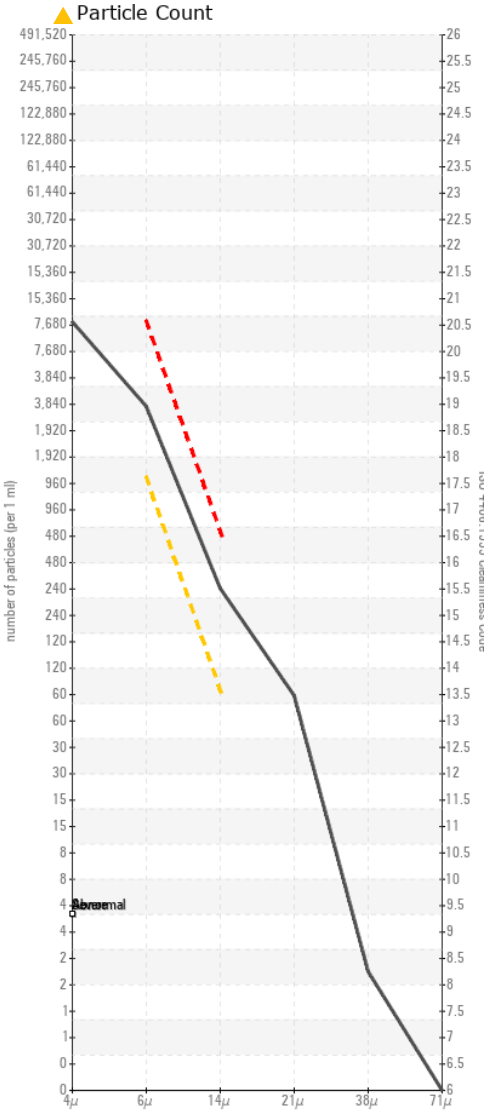
Non-ferrous Metals



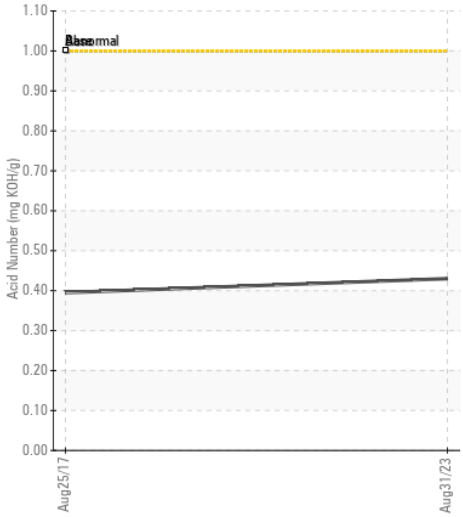
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCPA003637
Lab Number : 05957686
Unique Number : 10658899
Test Package : IND 2 (Additional Tests: KF, PrtCount)

Received : 21 Sep 2023
Tested : 22 Sep 2023
Diagnosed : 22 Sep 2023 - Doug Bogart

FMC TECHNOLOGIES - ALCORN CONSTRUCTION
1571 COUNTY RD 27
BRIGHTON, CO
US 80603
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: