KAESER COMPRESSORS
Built for a lifetime.

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL

Machine Id
KAESER SM 10 6691945 (S/N 1072)
Component
Compressor
Fluid
KAESER SIGMA (OEM) M-460 (--- QTS)

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

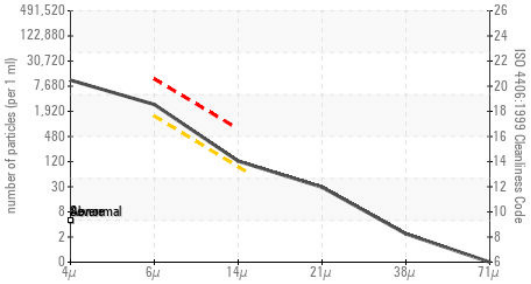
There is a moderate amount of particulates present in the oil.

FLUID CONDITION

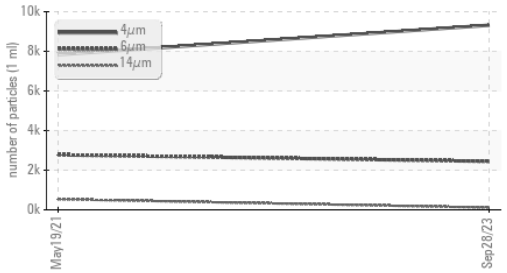
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KCPA000859	KCP32204	---
Sample Date		Client Info		28 Sep 2023	19 May 2021	---
Machine Age	hrs	Client Info		1449	455	---
Oil Age	hrs	Client Info		0	195	---
Filter Age	hrs	Client Info		0	195	---
Oil Changed		Client Info		N/A	Changed	---
Filter Changed		Client Info		Changed	N/A	---
Sample Status				ATTENTION	ABNORMAL	---
Iron	ppm	ASTM D5185m	>50	<1	0	---
Chromium	ppm	ASTM D5185m	>10	0	0	---
Nickel	ppm	ASTM D5185m	>3	<1	<1	---
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	<1	2	---
Copper	ppm	ASTM D5185m	>50	2	<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	2	---
Potassium	ppm	ASTM D5185m	>20	3	<1	---
Water	%	ASTM D6304	>0.05	0.020	0.033	---
ppm Water	ppm	ASTM D6304	>500	203.0	337.9	---
Particles >4µm		ASTM D7647		9318	7831	---
Particles >6µm		ASTM D7647	>1300	▲ 2445	▲ 2775	---
Particles >14µm		ASTM D7647	>80	▲ 109	▲ 537	---
Particles >21µm		ASTM D7647	>20	▲ 26	▲ 239	---
Particles >38µm		ASTM D7647	>4	2	▲ 13	---
Particles >71µm		ASTM D7647	>3	0	0	---
Oil Cleanliness		ISO 4406 (c)	>17/13	▲ 18/14	▲ 19/16	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	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		13	8	---
Boron	ppm	ASTM D5185m	0	0	21	---
Barium	ppm	ASTM D5185m	90	20	74	---
Molybdenum	ppm	ASTM D5185m	0	0	0	---
Manganese	ppm	ASTM D5185m		<1	0	---
Magnesium	ppm	ASTM D5185m	100	72	89	---
Calcium	ppm	ASTM D5185m	0	2	<1	---
Phosphorus	ppm	ASTM D5185m	0	<1	0	---
Zinc	ppm	ASTM D5185m	0	7	<1	---
Sulfur	ppm	ASTM D5185m	23500	21907	20523	---
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.36	0.321	---
Visc @ 40°C	cSt	ASTM D445	45	48.6	44.1	---

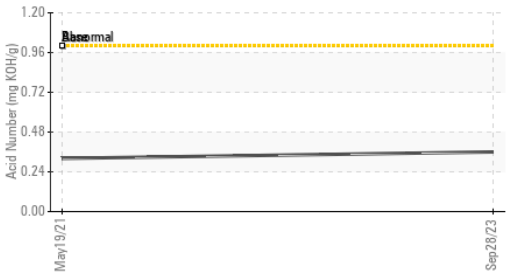
Particle Count



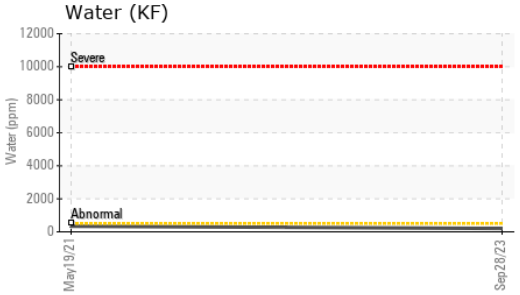
Particle Trend



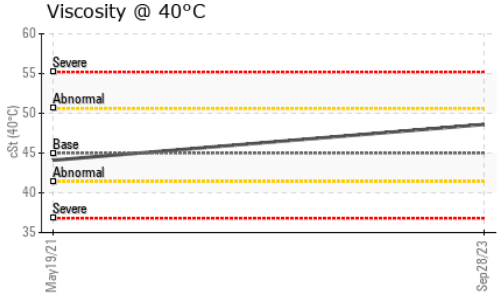
Acid Number



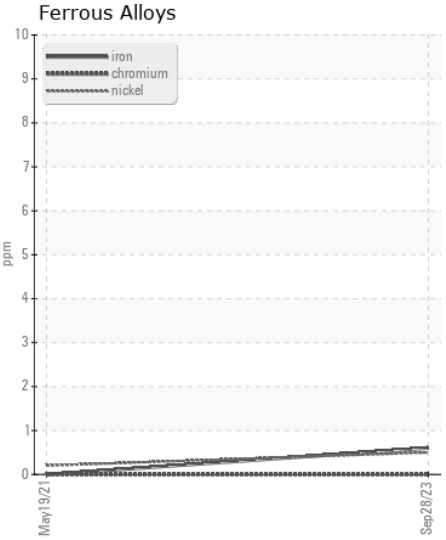
Water (KF)



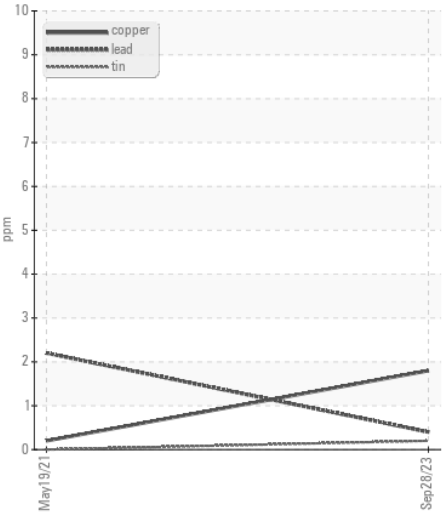
Viscosity @ 40°C



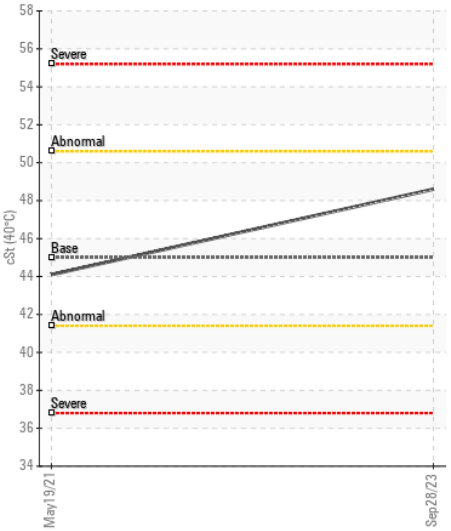
Ferrous Alloys



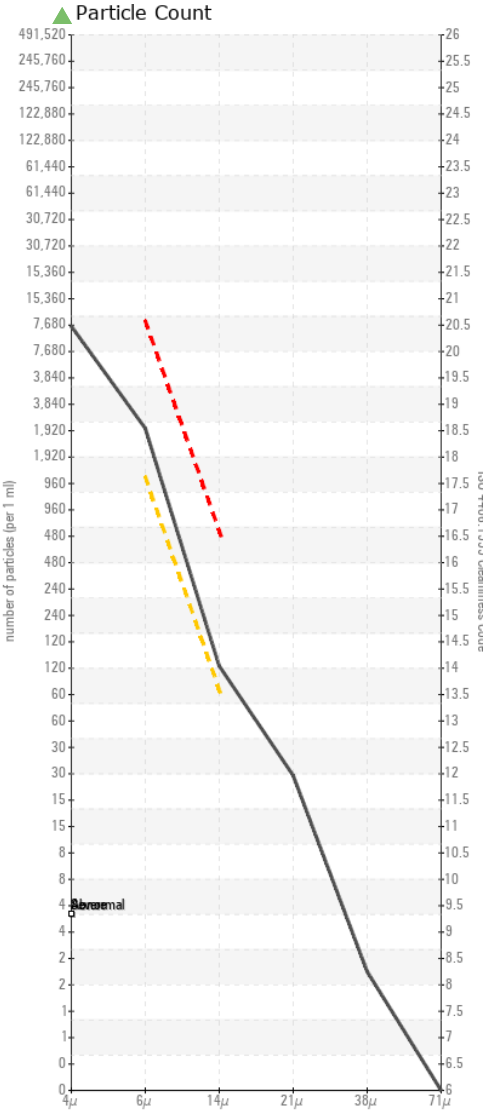
Non-ferrous Metals



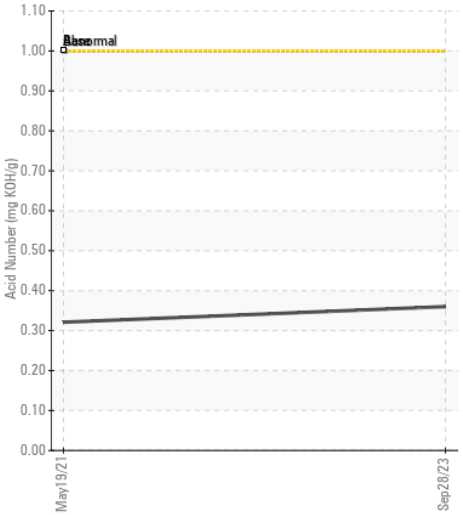
Viscosity @ 40°C



Particle Count



Acid Number



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCPA000859 **Recieved** : 06 Oct 2023
Lab Number : 05971447 **Diagnosed** : 10 Oct 2023
Unique Number : 10683397 **Diagnostician** : Don Baldridge
Test Package : IND 2 (Additional Tests: KF, PrtCount)

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)

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T:
F: