KAESER COMPRESSORS
Built for a lifetime.

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
8288682 (S/N 1294)
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

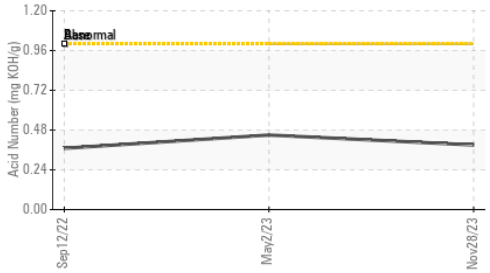
There is a high amount of particulates present in the oil.

FLUID CONDITION

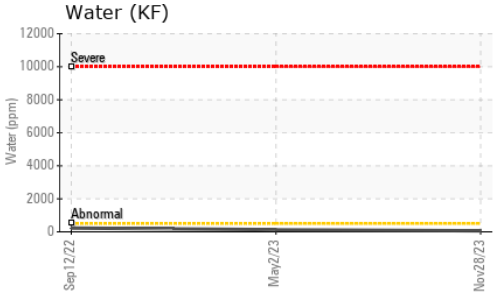
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KCPA010871	KCP52376	KCP44550
Sample Date		Client Info		28 Nov 2023	02 May 2023	12 Sep 2022
Machine Age	hrs	Client Info		6482	4236	1864
Oil Age	hrs	Client Info		0	2372	1863
Filter Age	hrs	Client Info		0	2372	1863
Oil Changed		Client Info		N/A	Changed	Not Changd
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ATTENTION	NORMAL
Iron	ppm	ASTM D5185m	>50	0	2	1
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>3	0	0	0
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>10	0	0	<1
Lead	ppm	ASTM D5185m	>10	0	0	<1
Copper	ppm	ASTM D5185m	>50	5	6	3
Tin	ppm	ASTM D5185m	>10	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	0	0	<1
Potassium	ppm	ASTM D5185m	>20	<1	7	10
Water	%	ASTM D6304	>0.05	0.006	0.013	0.022
ppm Water	ppm	ASTM D6304	>500	62	131.0	228.8
Particles >4µm		ASTM D7647		---	6986	6262
Particles >6µm		ASTM D7647	>1300	---	1788	863
Particles >14µm		ASTM D7647	>80	---	99	70
Particles >21µm		ASTM D7647	>20	---	15	12
Particles >38µm		ASTM D7647	>4	---	0	0
Particles >71µm		ASTM D7647	>3	---	0	0
Oil Cleanliness		ISO 4406 (c)	>--/17/13	---	20/18/14	20/17/13
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	▲ MODER	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
Sodium	ppm	ASTM D5185m		11	12	13
Boron	ppm	ASTM D5185m	0	0	0	0
Barium	ppm	ASTM D5185m	90	0	6	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		<1	1	<1
Magnesium	ppm	ASTM D5185m	100	29	47	66
Calcium	ppm	ASTM D5185m	0	0	0	1
Phosphorus	ppm	ASTM D5185m	0	2	2	5
Zinc	ppm	ASTM D5185m	0	0	18	5
Sulfur	ppm	ASTM D5185m	23500	16756	19643	21731
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.39	0.45	0.37
Visc @ 40°C	cSt	ASTM D445	45	46.5	44.5	44.2

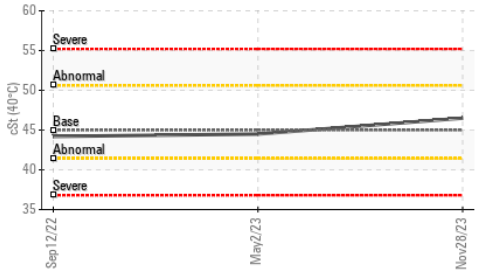
Acid Number



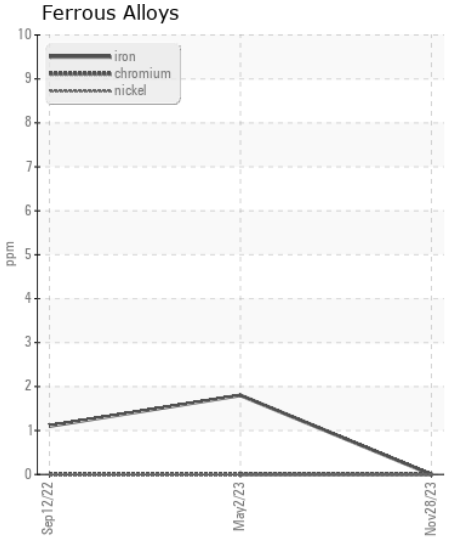
Water (KF)



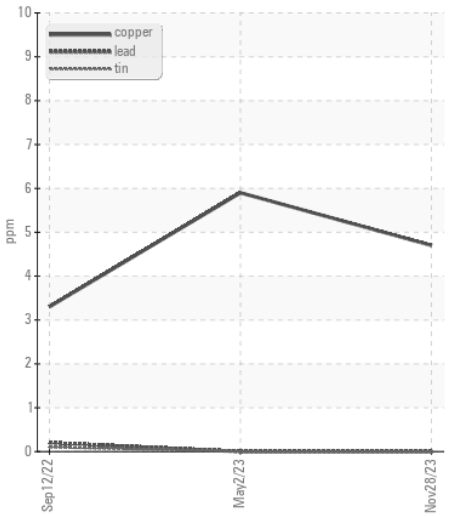
Viscosity @ 40°C



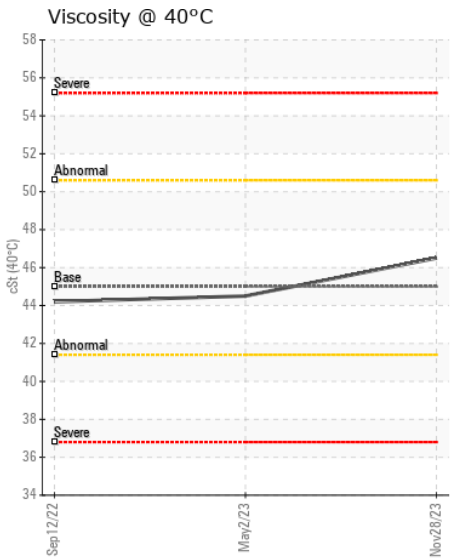
Ferrous Alloys



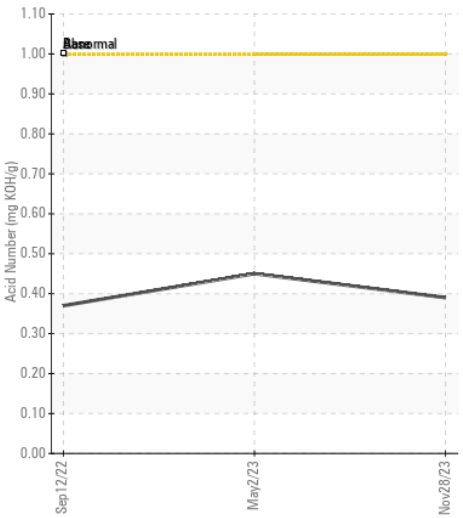
Non-ferrous Metals



Viscosity @ 40°C



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCPA010871 **Received** : 06 Dec 2023
Lab Number : 06026443 **Tested** : 07 Dec 2023
Unique Number : 10776234 **Diagnosed** : 07 Dec 2023 - Don Baldridge
Test Package : IND 2 (Additional Tests: KF, PrtCount)

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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