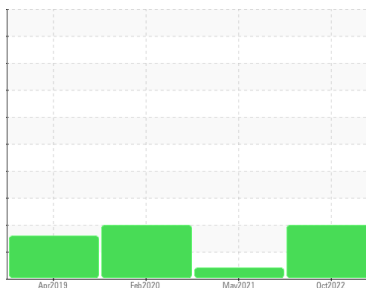


# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id  
**KAESER SX 6 3807364 (S/N 1086)**

Component  
**Compressor**

Fluid  
**KAESER SIGMA (OEM) M-460 (--- GAL)**

## DIAGNOSIS

### 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.

### 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 acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>KCP50214</b>	KCP35798	KCP26199
Sample Date	Client Info			<b>27 Oct 2022</b>	28 May 2021	04 Feb 2020
Machine Age	hrs	Client Info		<b>12699</b>	9352	6086
Oil Age	hrs	Client Info		<b>3347</b>	3266	1634
Oil Changed	Client Info			<b>Changed</b>	Changed	Changed
Sample Status				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<b>&lt;1</b>	<1	1
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m	>3	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185m	>10	<b>0</b>	<1	<1
Lead	ppm	ASTM D5185m	>10	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m	>50	<b>13</b>	14	13
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	<1
Antimony	ppm	ASTM D5185m		<b>---</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

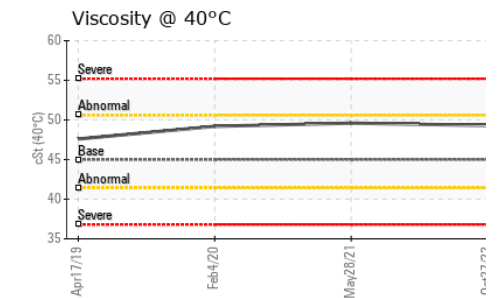
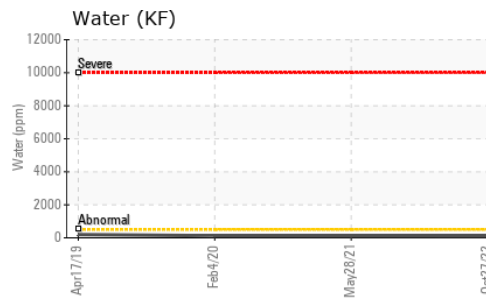
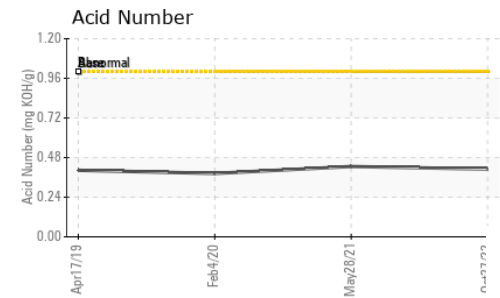
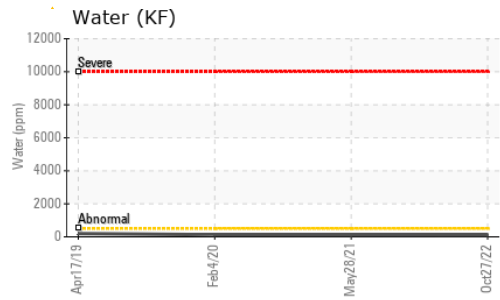
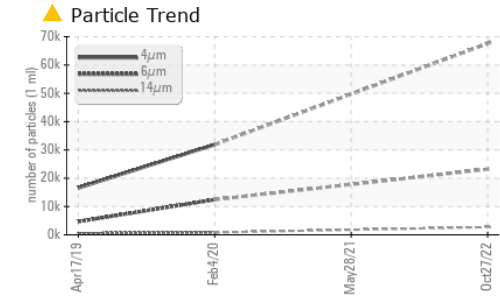
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<b>0</b>	22	<1
Barium	ppm	ASTM D5185m	90	<b>0</b>	0	2
Molybdenum	ppm	ASTM D5185m	0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m		<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185m	100	<b>2</b>	9	29
Calcium	ppm	ASTM D5185m	0	<b>0</b>	<1	1
Phosphorus	ppm	ASTM D5185m	0	<b>19</b>	0	2
Zinc	ppm	ASTM D5185m	0	<b>0</b>	11	15
Sulfur	ppm	ASTM D5185m	23500	<b>21520</b>	14872	18640

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>&lt;1</b>	<1	3
Sodium	ppm	ASTM D5185m		<b>1</b>	2	5
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	0	<1
Water	%	ASTM D6304	>0.05	<b>0.010</b>	0.011	0.012
ppm Water	ppm	ASTM D6304	>500	<b>109.7</b>	118.0	125.4

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		<b>67584</b>	---	31876
Particles >6µm		ASTM D7647	>1300	<b>▲ 23188</b>	---	▲ 12429
Particles >14µm		ASTM D7647	>80	<b>▲ 2722</b>	---	▲ 810
Particles >21µm		ASTM D7647	>20	<b>▲ 661</b>	---	▲ 185
Particles >38µm		ASTM D7647	>4	<b>▲ 51</b>	---	▲ 20
Particles >71µm		ASTM D7647	>3	<b>1</b>	---	▲ 4
Oil Cleanliness		ISO 4406 (c)	>--/17/13	<b>▲ 23/22/19</b>	---	▲ 21/17

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	<b>0.41</b>	0.426	0.384

# OIL ANALYSIS REPORT



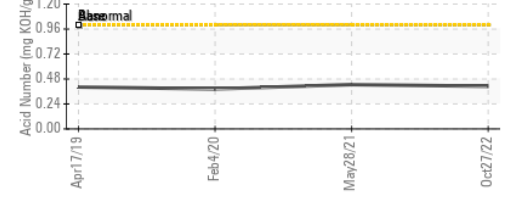
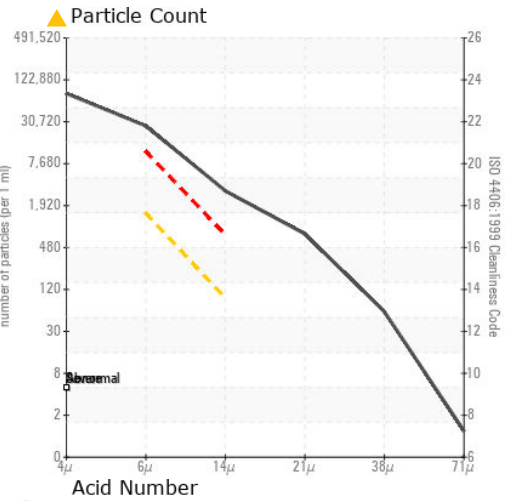
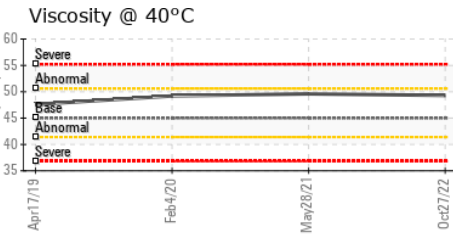
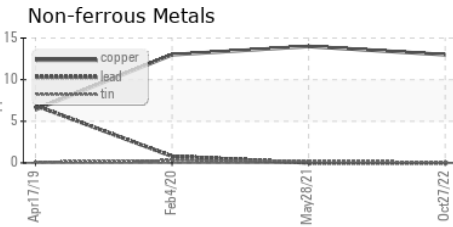
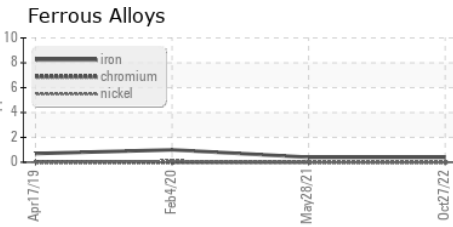
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	<b>LIGHT</b>	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45	<b>49.3</b>	49.6

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KCP50214 **Received** : 07 Nov 2022  
**Lab Number** : 05687289 **Diagnosed** : 10 Nov 2022  
**Unique Number** : 10206861 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**KEIVER-WILLARD LUMBER CORP**  
 11 GRAF RD #13  
 NEWBURYPORT, MA  
 US 01950  
 Contact: J. COLE  
 jcole@keiver-willard.com  
 T:  
 F:

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)