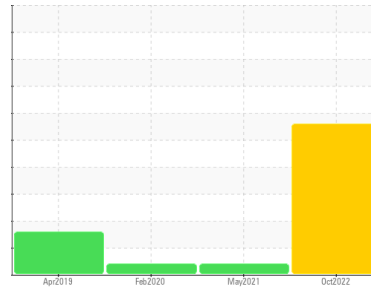


# OIL ANALYSIS REPORT

Sample Rating Trend



**WATER**



Machine Id  
**KAESER SX 7 2761317 (S/N 1551)**

Component  
**Compressor**

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

**DIAGNOSIS**

**▲ Recommendation**

Oil and filter change at the time of sampling has been noted. We recommend an early resample in 500 hours to monitor this condition.

**Wear**

All component wear rates are normal.

**▲ Contamination**

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

**Fluid Condition**

The AN level is acceptable for this fluid.

**SAMPLE INFORMATION**

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>KCP50153</b>	KCP35802	KCP26198
Sample Date	Client Info		<b>27 Oct 2022</b>	28 May 2021	04 Feb 2020
Machine Age	hrs	Client Info	<b>8164</b>	13373	4614
Oil Age	hrs	Client Info	<b>5209</b>	1899	0
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>2</b>	<1	<1
Chromium	ppm	ASTM D5185m >10	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m >3	<b>0</b>	0	0
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>6</b>	6	11
Tin	ppm	ASTM D5185m >10	<b>0</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>	23	<1
Barium	ppm	ASTM D5185m 90	<b>0</b>	2	<1
Molybdenum	ppm	ASTM D5185m 0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m 100	<b>27</b>	36	29
Calcium	ppm	ASTM D5185m 0	<b>0</b>	<1	2
Phosphorus	ppm	ASTM D5185m 0	<b>22</b>	0	3
Zinc	ppm	ASTM D5185m 0	<b>0</b>	8	0
Sulfur	ppm	ASTM D5185m 23500	<b>23198</b>	15342	17047

**CONTAMINANTS**

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>&lt;1</b>	<1	<1
Sodium	ppm	ASTM D5185m	<b>4</b>	11	11
Potassium	ppm	ASTM D5185m >20	<b>0</b>	<1	2
Water	%	ASTM D6304 >0.05	<b>▲ 0.485</b>	0.015	0.012
ppm Water	ppm	ASTM D6304 >500	<b>▲ 4850</b>	155.3	127.7

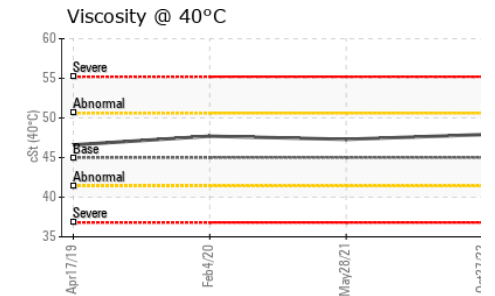
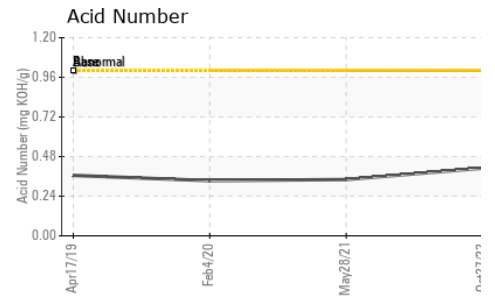
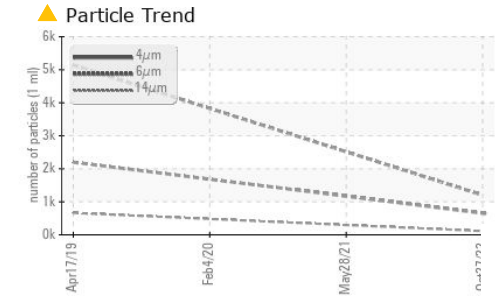
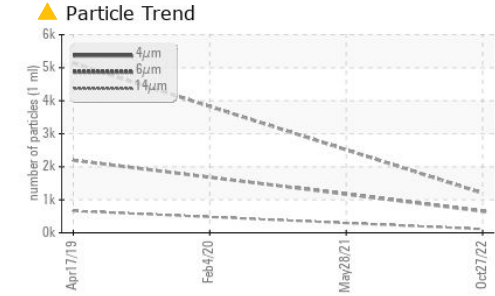
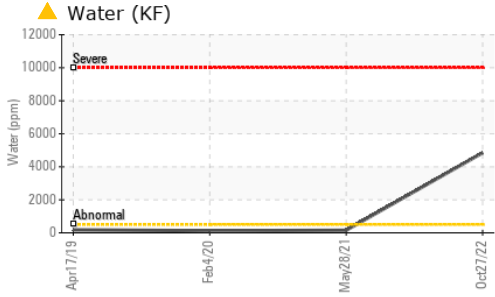
**FLUID CLEANLINESS**

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		<b>1203</b>	---	---
Particles >6µm	ASTM D7647	>1300	<b>655</b>	---	---
Particles >14µm	ASTM D7647	>80	<b>▲ 112</b>	---	---
Particles >21µm	ASTM D7647	>20	<b>▲ 38</b>	---	---
Particles >38µm	ASTM D7647	>4	<b>▲ 6</b>	---	---
Particles >71µm	ASTM D7647	>3	<b>1</b>	---	---
Oil Cleanliness	ISO 4406 (c)	>--/17/13	<b>▲ 17/17/14</b>	---	---

**FLUID DEGRADATION**

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 1.0	<b>0.41</b>	0.341	0.334

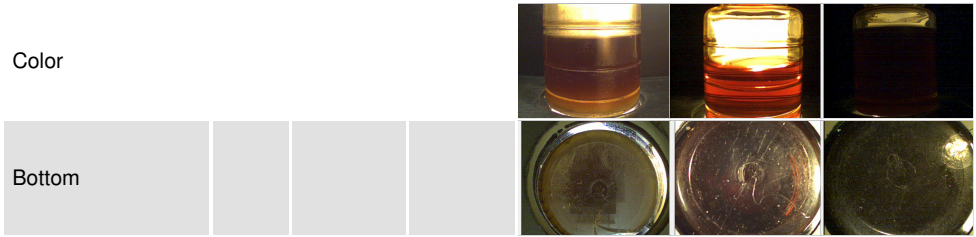
# OIL ANALYSIS REPORT



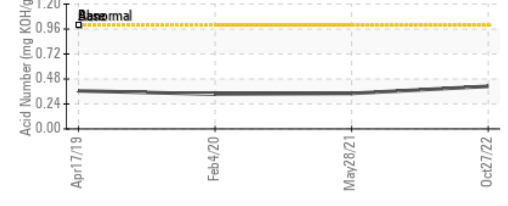
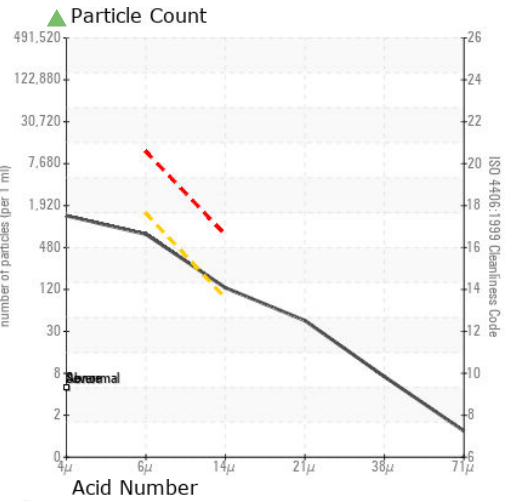
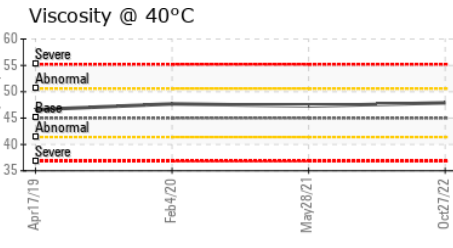
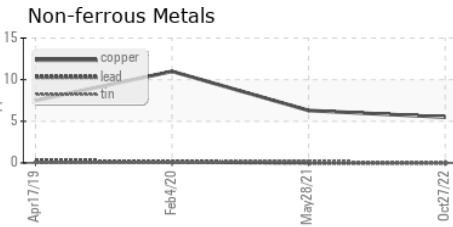
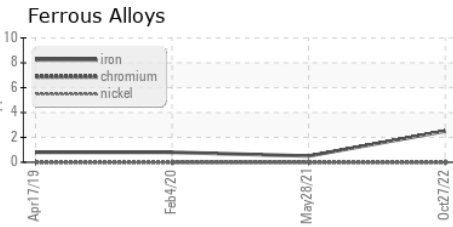
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	▲ MODER
Appearance	scalar	*Visual	▲ HAZY	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	▲ 0.2%	NEG	NEG
Free Water	scalar	*Visual	▲ 1.0	NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 45	47.9	47.3	47.7

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KCP50153 **Received** : 07 Nov 2022  
**Lab Number** : 05687276 **Diagnosed** : 10 Nov 2022  
**Unique Number** : 10206848 **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)