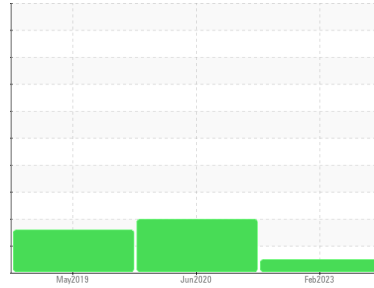




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**KAESER SX 7.5 5781254 (S/N 1416)**

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 no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

**Fluid Condition**

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

**SAMPLE INFORMATION**

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>KCP54985</b>	KCP10837	KCP18332
Sample Date	Client Info		<b>05 Feb 2023</b>	26 Jun 2020	03 May 2019
Machine Age	hrs	Client Info	<b>9241</b>	4453	2162
Oil Age	hrs	Client Info	<b>0</b>	2291	2162
Oil Changed	Client Info		<b>Changed</b>	Changed	Changed
Sample Status			<b>NORMAL</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>	<1	<1
Nickel	ppm	ASTM D5185m >3	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m >3	<b>0</b>	<1	0
Silver	ppm	ASTM D5185m >2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >10	<b>0</b>	<1	0
Lead	ppm	ASTM D5185m >10	<b>0</b>	<1	1
Copper	ppm	ASTM D5185m >50	<b>4</b>	3	6
Tin	ppm	ASTM D5185m >10	<b>0</b>	0	<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>	0	0
Barium	ppm	ASTM D5185m 90	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m 0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m	<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m 100	<b>22</b>	42	32
Calcium	ppm	ASTM D5185m 0	<b>0</b>	<1	<1
Phosphorus	ppm	ASTM D5185m 0	<b>2</b>	1	2
Zinc	ppm	ASTM D5185m 0	<b>15</b>	32	67
Sulfur	ppm	ASTM D5185m 23500	<b>18054</b>	16786	22303

**CONTAMINANTS**

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>1</b>	2	2
Sodium	ppm	ASTM D5185m	<b>2</b>	7	9
Potassium	ppm	ASTM D5185m >20	<b>&lt;1</b>	0	1
Water	%	ASTM D6304 >0.05	<b>0.024</b>	0.018	0.019
ppm Water	ppm	ASTM D6304 >500	<b>245.0</b>	187.0	190

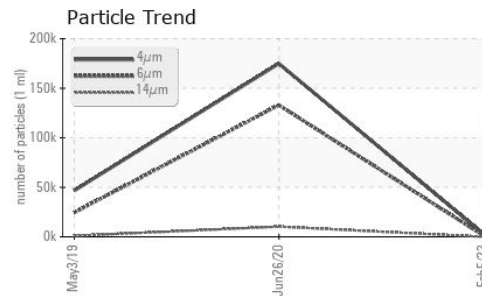
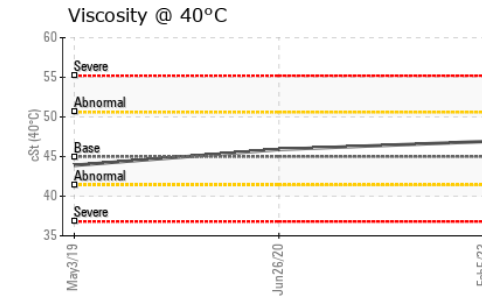
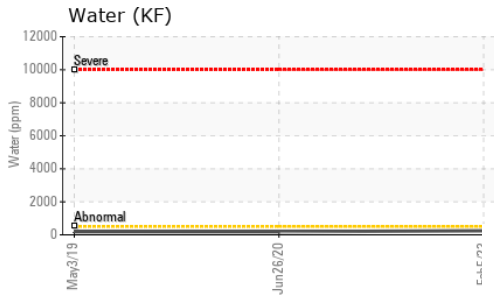
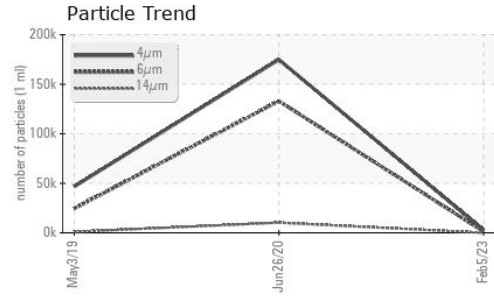
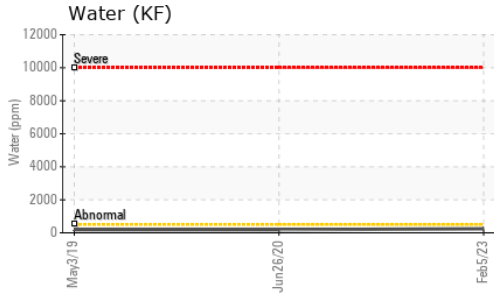
**FLUID CLEANLINESS**

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		<b>2791</b>	174853	46616
Particles >6µm	ASTM D7647	>1300	<b>1155</b>	▲ 132909	▲ 24569
Particles >14µm	ASTM D7647	>80	<b>37</b>	▲ 10259	▲ 926
Particles >21µm	ASTM D7647	>20	<b>3</b>	▲ 332	▲ 49
Particles >38µm	ASTM D7647	>4	<b>1</b>	▲ 20	▲ 5
Particles >71µm	ASTM D7647	>3	<b>0</b>	▲ 11	0
Oil Cleanliness	ISO 4406 (c)	>--/17/13	<b>19/17/12</b>	▲ 24/21	▲ 22/17

**FLUID DEGRADATION**

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 1.0	<b>0.33</b>	0.333	0.230

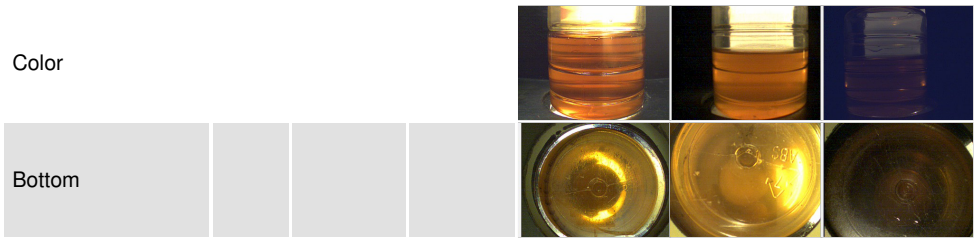
# OIL ANALYSIS REPORT



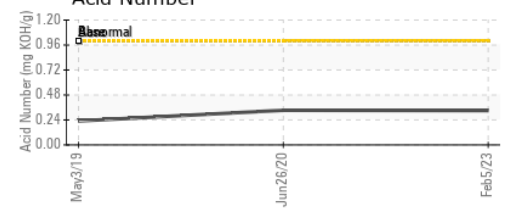
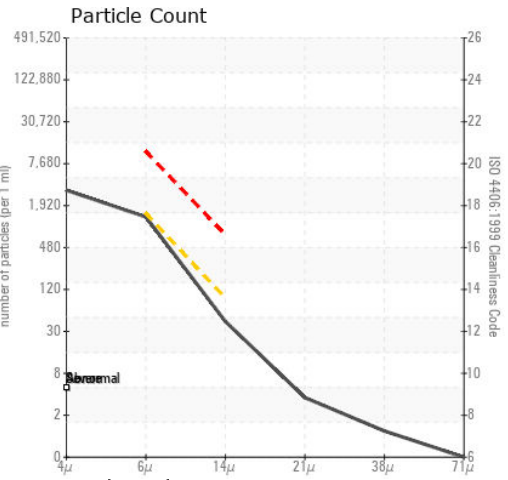
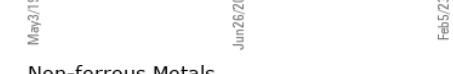
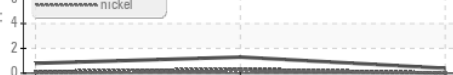
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	46.9	45.9

SAMPLE IMAGES	method	limit/base	current	history1	history2
---------------	--------	------------	---------	----------	----------



## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KCP54985 **Received** : 06 Feb 2023  
**Lab Number** : 05760069 **Tested** : 07 Feb 2023  
**Unique Number** : 10324676 **Diagnosed** : 07 Feb 2023 - Doug Bogart  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**PLATFORM SYSTEMS**  
 43960 AIRPORT VIEW DR  
 HOLLYWOOD, MD  
 US 20636  
 Contact: JAMES GUIDO  
 JAMES.GUIDO@PLATFORMAERO.COM

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)