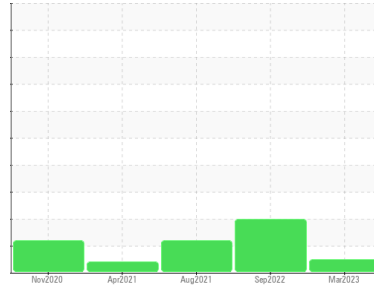




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**KAESER SX 7.5 7359285 (S/N 1192)**

Component  
**Compressor**

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

## DIAGNOSIS

### Recommendation

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>KC111336</b>	KC106510	KC56942
Sample Date	Client Info		<b>21 Mar 2023</b>	20 Sep 2022	18 Aug 2021
Machine Age	hrs	Client Info	<b>24285</b>	19929	10388
Oil Age	hrs	Client Info	<b>7357</b>	3000	3323
Oil Changed	Client Info		<b>Changed</b>	Not Changd	Changed
Sample Status			<b>NORMAL</b>	ABNORMAL	ABNORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<b>0</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>	0	0
Aluminum	ppm	ASTM D5185m >10	<b>0</b>	0	<1
Lead	ppm	ASTM D5185m >10	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m >50	<b>4</b>	4	7
Tin	ppm	ASTM D5185m >10	<b>0</b>	0	0
Antimony	ppm	ASTM D5185m	<b>---</b>	---	4
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	<1

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>0</b>	0	16
Barium	ppm	ASTM D5185m 90	<b>7</b>	6	5
Molybdenum	ppm	ASTM D5185m	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m	<b>0</b>	0	0
Magnesium	ppm	ASTM D5185m 90	<b>16</b>	30	19
Calcium	ppm	ASTM D5185m 2	<b>0</b>	<1	<1
Phosphorus	ppm	ASTM D5185m	<b>1</b>	10	2
Zinc	ppm	ASTM D5185m	<b>6</b>	4	12

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>0</b>	2	<1
Sodium	ppm	ASTM D5185m	<b>9</b>	10	9
Potassium	ppm	ASTM D5185m >20	<b>0</b>	<1	9
Water	%	ASTM D6304 >0.05	<b>0.014</b>	0.015	0.009
ppm Water	ppm	ASTM D6304 >500	<b>143.7</b>	159.7	99.3

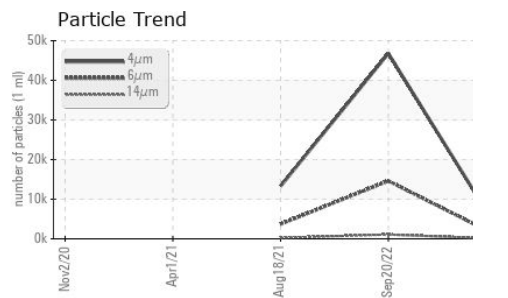
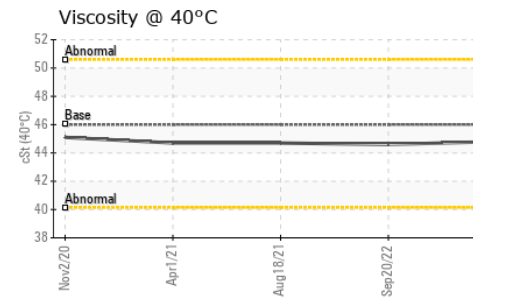
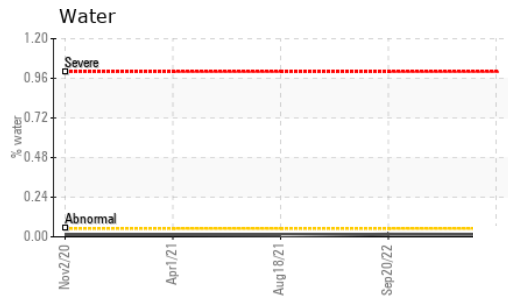
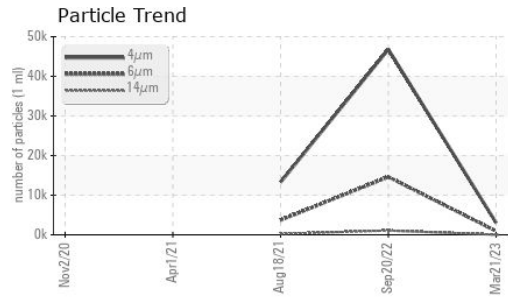
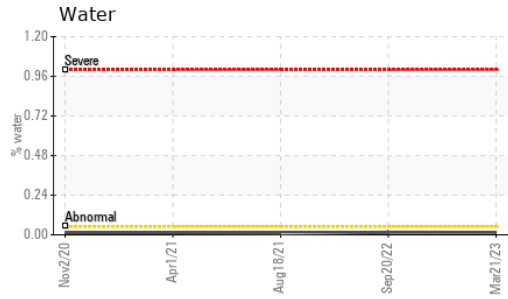
## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		<b>3063</b>	46791	13292
Particles >6µm	ASTM D7647 >1300		<b>939</b>	▲ 14626	▲ 3719
Particles >14µm	ASTM D7647 >80		<b>27</b>	▲ 1081	▲ 219
Particles >21µm	ASTM D7647 >20		<b>5</b>	▲ 185	▲ 42
Particles >38µm	ASTM D7647 >4		<b>0</b>	▲ 9	0
Particles >71µm	ASTM D7647 >3		<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c) >--/17/13		<b>19/17/12</b>	▲ 23/21/17	▲ 19/15

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.4	<b>0.24</b>	0.27	0.212

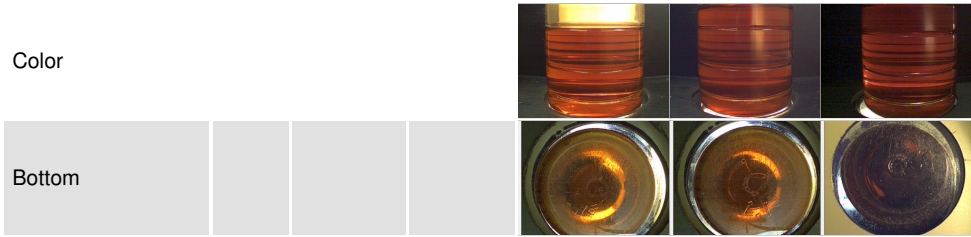
# OIL ANALYSIS REPORT



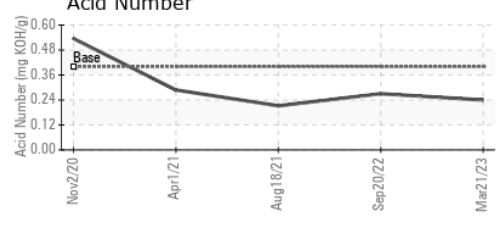
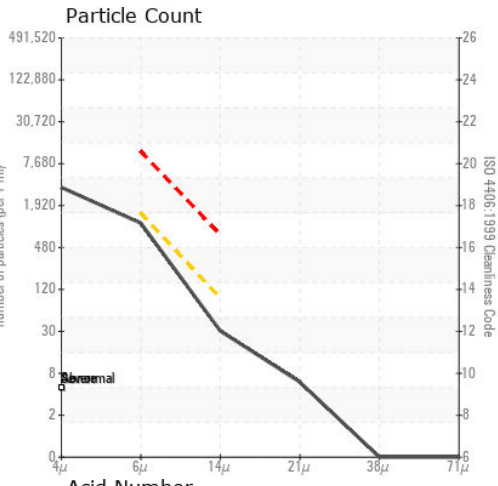
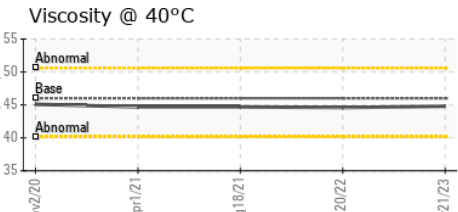
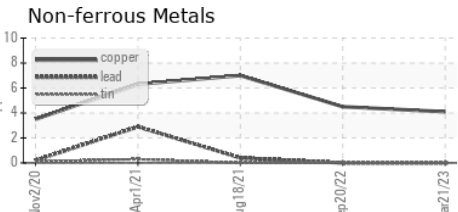
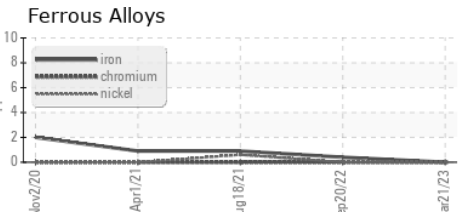
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 46	44.8	44.6	44.7

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KC111336 **Received** : 27 Mar 2023  
**Lab Number** : 05803445 **Diagnosed** : 31 Mar 2023  
**Unique Number** : 10400974 **Diagnostician** : Jonathan Hester  
**Test Package** : IND 2

**PHARMERICA**  
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 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)