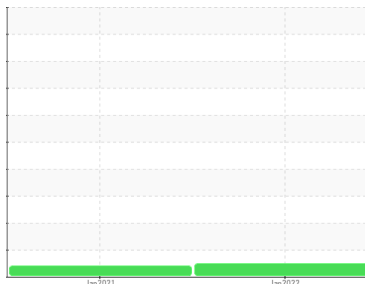


# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**7145197 (S/N 1205)**

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

## DIAGNOSIS

### Recommendation

No corrective action is recommended at this time. Oil and 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

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>KC95268</b>	KC91935	---
Sample Date	Client Info		<b>27 Jan 2022</b>	06 Jan 2021	---
Machine Age	hrs	Client Info	<b>4805</b>	2074	---
Oil Age	hrs	Client Info	<b>2762</b>	2074	---
Oil Changed	Client Info		<b>Changed</b>	Changed	---
Sample Status			<b>NORMAL</b>	ABNORMAL	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<b>1</b>	2	---
Chromium	ppm	ASTM D5185m >10	<b>0</b>	0	---
Nickel	ppm	ASTM D5185m >3	<b>&lt;1</b>	0	---
Titanium	ppm	ASTM D5185m >3	<b>0</b>	0	---
Silver	ppm	ASTM D5185m >2	<b>&lt;1</b>	0	---
Aluminum	ppm	ASTM D5185m >10	<b>&lt;1</b>	<1	---
Lead	ppm	ASTM D5185m >10	<b>&lt;1</b>	0	---
Copper	ppm	ASTM D5185m >50	<b>19</b>	10	---
Tin	ppm	ASTM D5185m >10	<b>0</b>	0	---
Antimony	ppm	ASTM D5185m	<b>&lt;1</b>	0	---
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	---
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>21</b>	10	---
Barium	ppm	ASTM D5185m 90	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	<b>0</b>	0	---
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185m 90	<b>33</b>	53	---
Calcium	ppm	ASTM D5185m 2	<b>&lt;1</b>	<1	---
Phosphorus	ppm	ASTM D5185m	<b>3</b>	2	---
Zinc	ppm	ASTM D5185m	<b>13</b>	6	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>2</b>	<1	---
Sodium	ppm	ASTM D5185m	<b>15</b>	15	---
Potassium	ppm	ASTM D5185m >20	<b>5</b>	5	---
Water	%	ASTM D6304 >0.05	<b>0.002</b>	0.014	---
ppm Water	ppm	ASTM D6304 >500	<b>20.3</b>	147.8	---

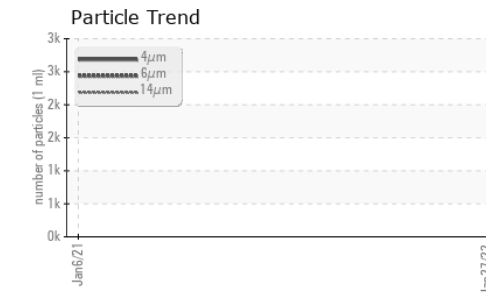
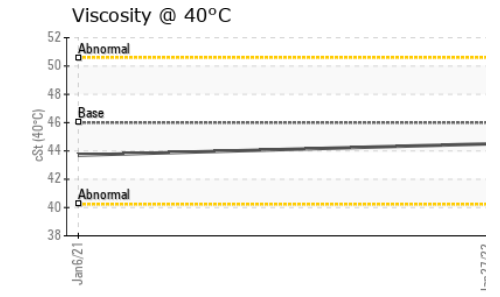
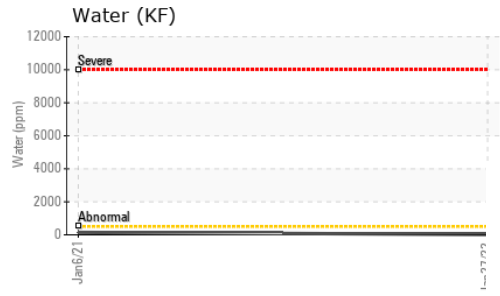
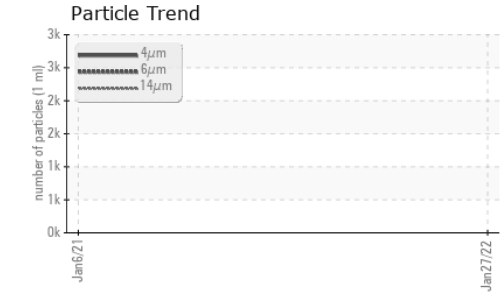
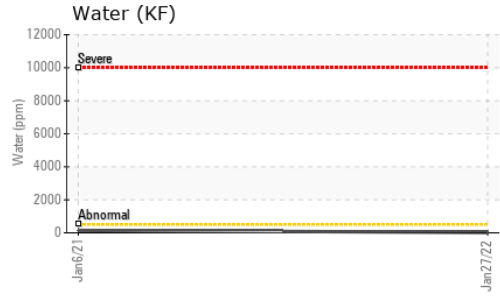
## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		<b>2637</b>	---	---
Particles >6µm	ASTM D7647 >1300		<b>939</b>	---	---
Particles >14µm	ASTM D7647 >80		<b>40</b>	---	---
Particles >21µm	ASTM D7647 >20		<b>4</b>	---	---
Particles >38µm	ASTM D7647 >4		<b>0</b>	---	---
Particles >71µm	ASTM D7647 >3		<b>0</b>	---	---
Oil Cleanliness	ISO 4406 (c) >--/17/13		<b>17/12</b>	---	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.4	<b>0.37</b>	0.342	---

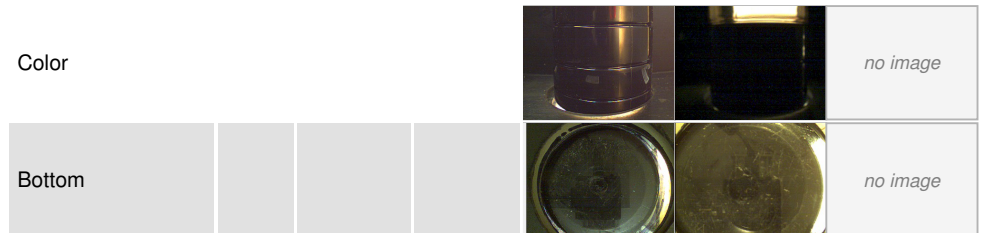
# OIL ANALYSIS REPORT



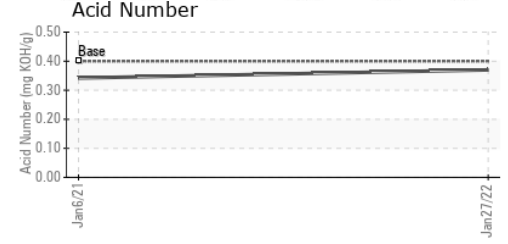
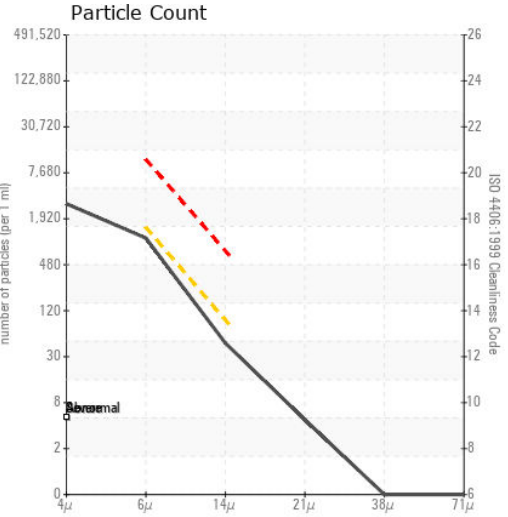
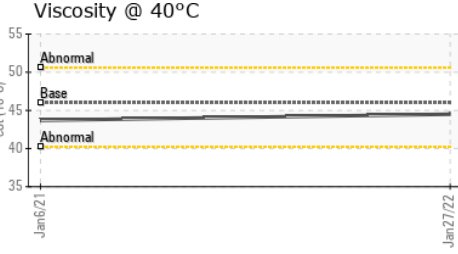
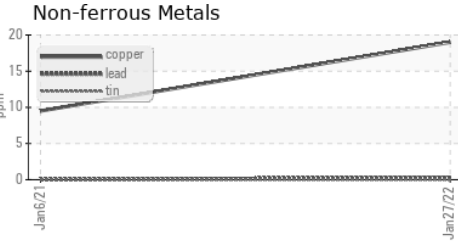
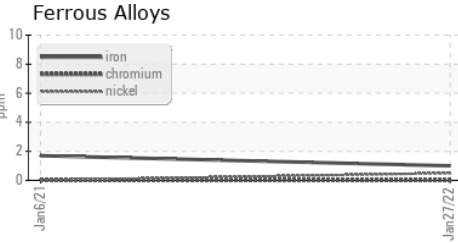
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	44.5	43.7

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



## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KC95268  
**Lab Number** : 05460195  
**Unique Number** : 9839391  
**Test Package** : IND 2  
**Received** : 04 Feb 2022  
**Tested** : 07 Feb 2022  
**Diagnosed** : 08 Feb 2022 - Angela Borella

**NOVA FILMS**  
 11 INDUSTRY DR  
 BEDFORD, OH  
 US 44146  
 Contact: Service Manager

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)

T:  
F: