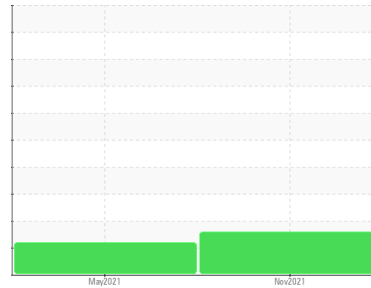


# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id  
**7463760 (S/N 1030)**

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

**DIAGNOSIS**

**▲ Recommendation**

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**

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 suitable for further service.

**SAMPLE INFORMATION**

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>KC95713</b>	KC90142	---
Sample Date	Client Info	<b>17 Nov 2021</b>	20 May 2021	---
Machine Age	hrs	<b>1812</b>	368	---
Oil Age	hrs	<b>1812</b>	368	---
Oil Changed	Client Info	<b>Changed</b>	Not Changd	---
Sample Status		<b>ABNORMAL</b>	ATTENTION	---

**WEAR METALS**

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >50	<b>2</b>	<1	---
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>0</b>	0	---
Aluminum	ppm	ASTM D5185m >10	<b>&lt;1</b>	0	---
Lead	ppm	ASTM D5185m >10	<b>&lt;1</b>	<1	---
Copper	ppm	ASTM D5185m >50	<b>4</b>	<1	---
Tin	ppm	ASTM D5185m >10	<b>0</b>	0	---
Antimony	ppm	ASTM D5185m	<b>2</b>	0	---
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	---
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	---

**ADDITIVES**

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	<b>17</b>	<1	---
Barium	ppm	ASTM D5185m 90	<b>&lt;1</b>	59	---
Molybdenum	ppm	ASTM D5185m	<b>0</b>	0	---
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185m 90	<b>36</b>	77	---
Calcium	ppm	ASTM D5185m 2	<b>&lt;1</b>	2	---
Phosphorus	ppm	ASTM D5185m	<b>4</b>	0	---
Zinc	ppm	ASTM D5185m	<b>14</b>	0	---

**CONTAMINANTS**

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >25	<b>1</b>	0	---
Sodium	ppm	ASTM D5185m	<b>12</b>	6	---
Potassium	ppm	ASTM D5185m >20	<b>11</b>	3	---
Water	%	ASTM D6304 >0.05	<b>0.016</b>	0.024	---
ppm Water	ppm	ASTM D6304 >500	<b>163.2</b>	245.7	---

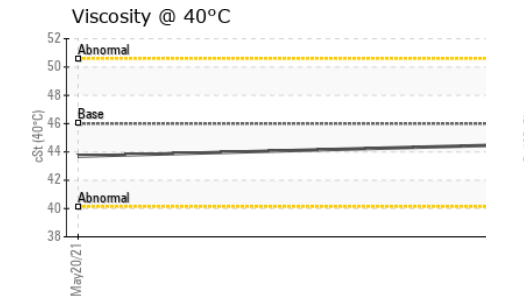
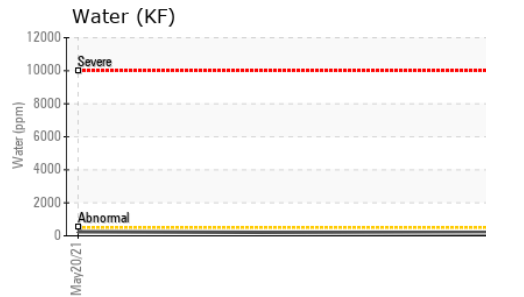
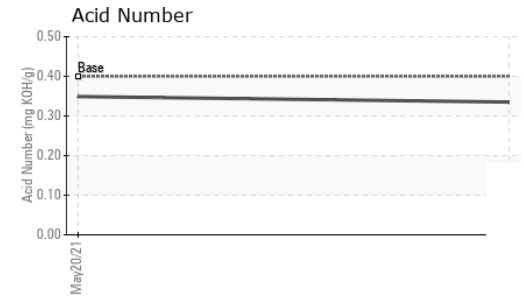
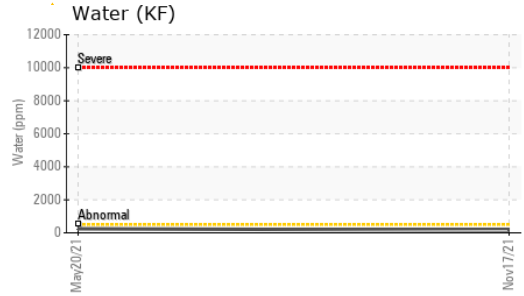
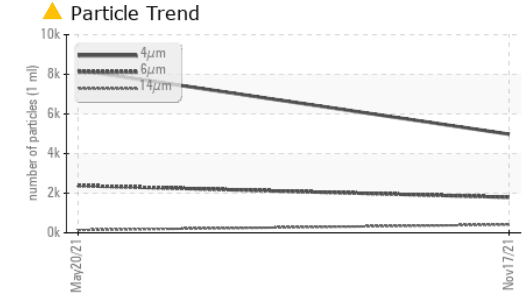
**FLUID CLEANLINESS**

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	<b>4978</b>	8207	---
Particles >6µm	ASTM D7647 >1300	<b>▲ 1794</b>	▲ 2383	---
Particles >14µm	ASTM D7647 >80	<b>▲ 415</b>	▲ 139	---
Particles >21µm	ASTM D7647 >20	<b>▲ 147</b>	▲ 37	---
Particles >38µm	ASTM D7647 >4	<b>▲ 6</b>	3	---
Particles >71µm	ASTM D7647 >3	<b>0</b>	0	---
Oil Cleanliness	ISO 4406 (c) >--/17/13	<b>▲ 18/16</b>	▲ 18/14	---

**FLUID DEGRADATION**

method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045 0.4	<b>0.335</b>	0.349	---

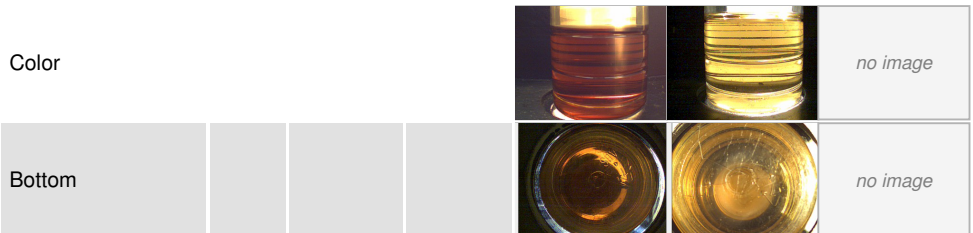
# OIL ANALYSIS REPORT



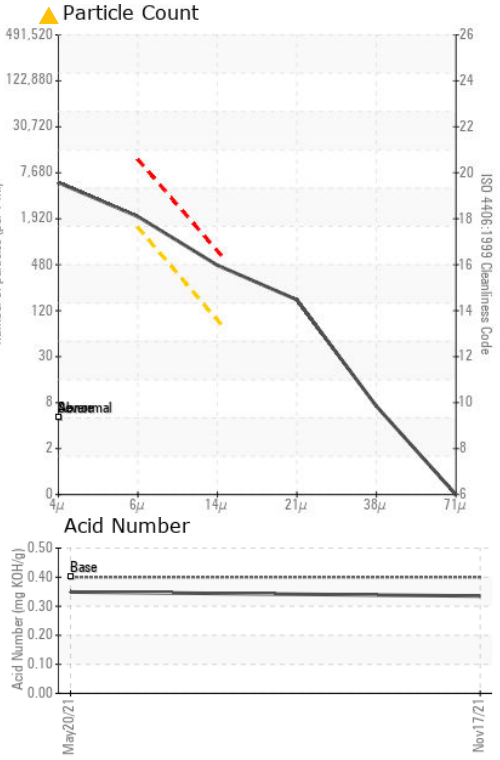
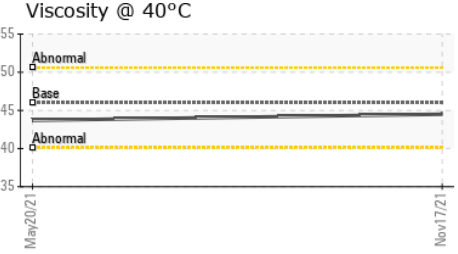
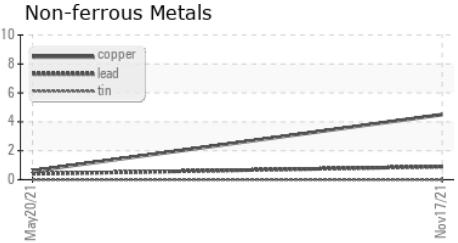
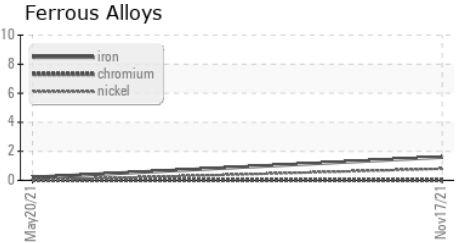
PARAMETER	VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE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

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

PARAMETER	method	limit/base	current	history1	history2
SAMPLE IMAGES					



## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KC95713 **Received** : 24 Nov 2021  
**Lab Number** : 05408749 **Diagnosed** : 02 Dec 2021  
**Unique Number** : 9752912 **Diagnostician** : Jonathan Hester  
**Test Package** : IND 2

**PIPELINE DEVELOPMENT**  
 11792 ALAMEDA DR  
 STRONGSVILLE, OH  
 US 44149  
 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)