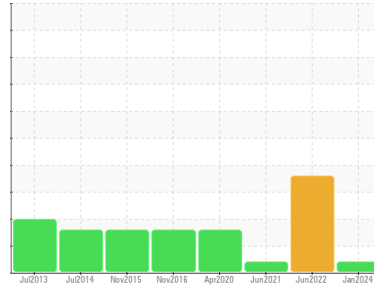




# OIL ANALYSIS REPORT

Sample Rating Trend



VIS DEBRIS



Machine Id  
**AIR CENTER 5X7.5 4130004 (S/N 1120)**

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

## DIAGNOSIS

### Recommendation

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

### Wear

All component wear rates are normal.

### Contamination

Moderate concentration of visible dirt/debris 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>KC127595</b>	KC104137	KC92796
Sample Date	Client Info	<b>04 Jan 2024</b>	24 Jun 2022	15 Jun 2021
Machine Age	hrs	<b>31098</b>	27967	25785
Oil Age	hrs	<b>0</b>	2182	3419
Oil Changed	Client Info	<b>N/A</b>	Changed	Changed
Sample Status		<b>ABNORMAL</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	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m	<b>0</b>	0	0
Silver	ppm	ASTM D5185m	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >25	<b>0</b>	<1	<1
Lead	ppm	ASTM D5185m >25	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185m >50	<b>10</b>	7	7
Tin	ppm	ASTM D5185m >15	<b>0</b>	<1	<1
Antimony	ppm	ASTM D5185m	<b>---</b>	---	<1
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	<b>0</b>	0	14
Barium	ppm	ASTM D5185m 90	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185m 90	<b>21</b>	28	26
Calcium	ppm	ASTM D5185m 2	<b>2</b>	<1	<1
Phosphorus	ppm	ASTM D5185m	<b>2</b>	2	10
Zinc	ppm	ASTM D5185m	<b>22</b>	29	40

## CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >25	<b>&lt;1</b>	<1	2
Sodium	ppm	ASTM D5185m	<b>11</b>	7	11
Potassium	ppm	ASTM D5185m >20	<b>0</b>	2	2
Water	%	ASTM D6304 >0.1	<b>0.066</b>	▲ 0.200	0.016
ppm Water	ppm	ASTM D6304 >1000	<b>660</b>	▲ 2000	164.3

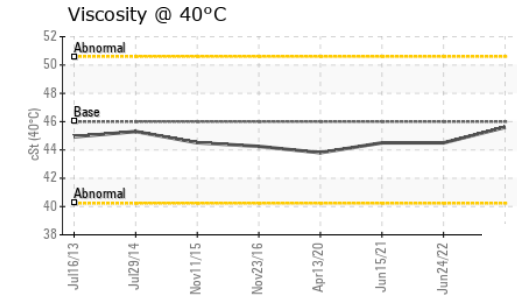
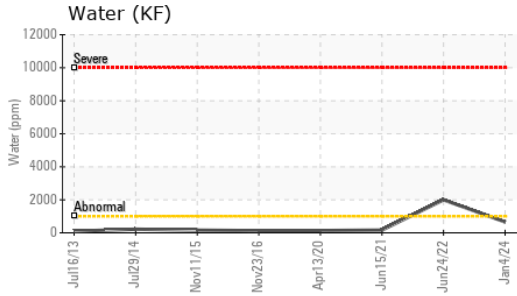
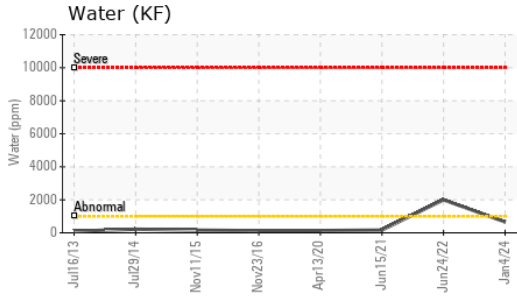
## FLUID CLEANLINESS

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

## FLUID DEGRADATION

method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045 0.4	<b>0.26</b>	0.25	0.303

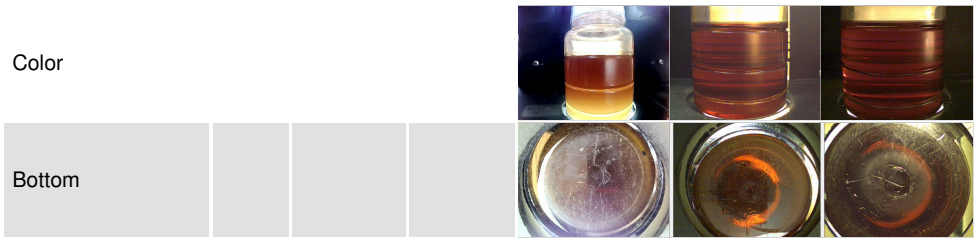
# OIL ANALYSIS REPORT



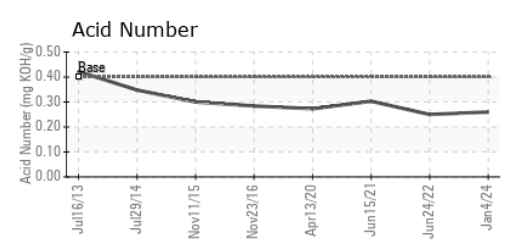
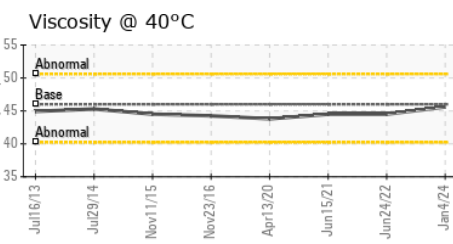
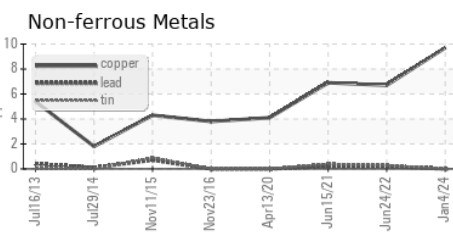
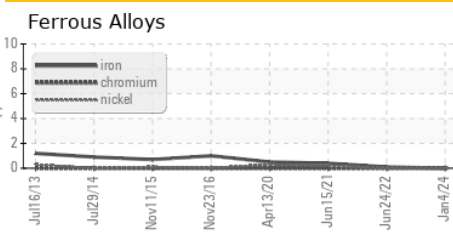
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	<b>MODER</b>	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	NONE
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE
Debris	scalar	*Visual	NONE	<b>MODER</b>	<b>MODER</b>
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	<b>MODER</b>
Appearance	scalar	*Visual	NORML	<b>NORML</b>	<b>NORML</b>
Odor	scalar	*Visual	NORML	<b>NORML</b>	<b>NORML</b>
Emulsified Water	scalar	*Visual	>0.1	<b>0.2%</b>	<b>0.2%</b>
Free Water	scalar	*Visual		<b>NEG</b>	<b>1.0</b>

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	<b>45.6</b>	44.5

### SAMPLE IMAGES



### GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KC127595 **Recieved** : 19 Jan 2024  
**Lab Number** : 06065614 **Diagnosed** : 24 Jan 2024  
**Unique Number** : 10836996 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2

**PEREG GOURMET NATURAL FOOD**  
 25 STYERTOWNE RD  
 CLIFTON, NJ  
 US 07012  
 Contact:

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)

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