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# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>ABNORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**KAESER SM 10 AIR CENTER 7969194 (S/N 1142)**

Component  
**Compressor**

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

## 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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>KCPA003854</b>	KCP45145	---
Sample Date		Client Info		<b>12 Sep 2023</b>	25 May 2022	---
Machine Age	hrs	Client Info		<b>11055</b>	4037	---
Oil Age	hrs	Client Info		<b>0</b>	4037	---
Filter Age	hrs	Client Info		<b>0</b>	4037	---
Oil Changed		Client Info		<b>N/A</b>	Changed	---
Filter Changed		Client Info		<b>Changed</b>	Changed	---
Sample Status				<b>ABNORMAL</b>	NORMAL	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<b>&lt;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>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>10	<b>0</b>	<1	---
Lead	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	---
Copper	ppm	ASTM D5185m	>50	<b>4</b>	4	---
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

## CONTAMINATION

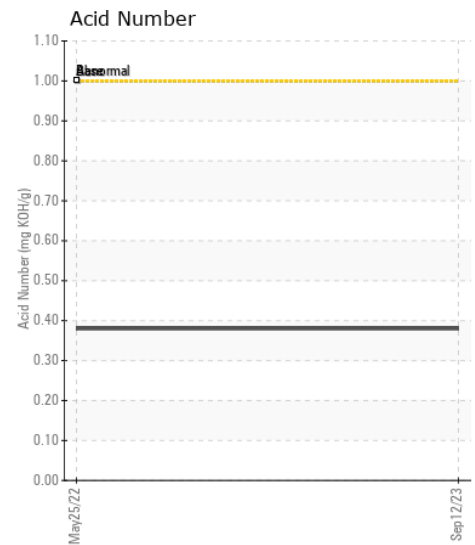
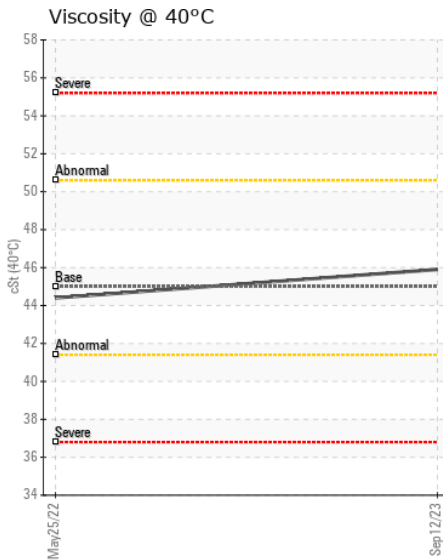
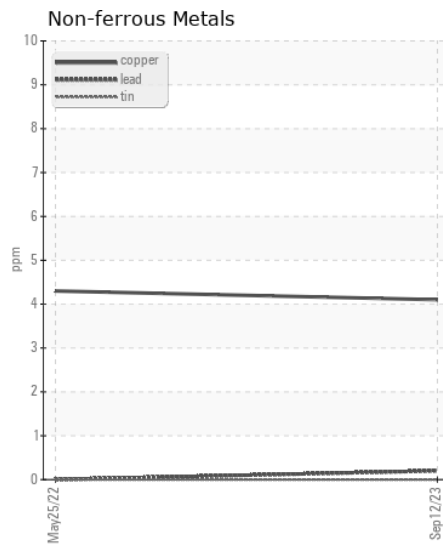
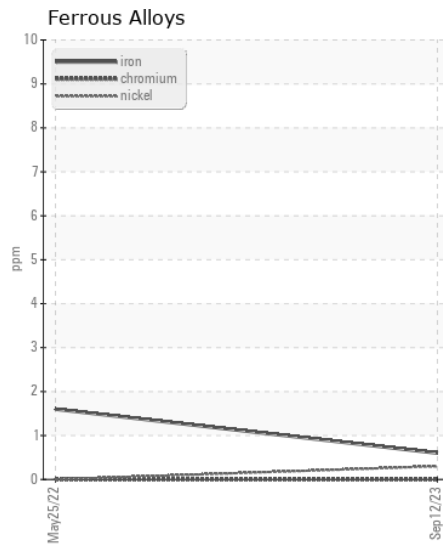
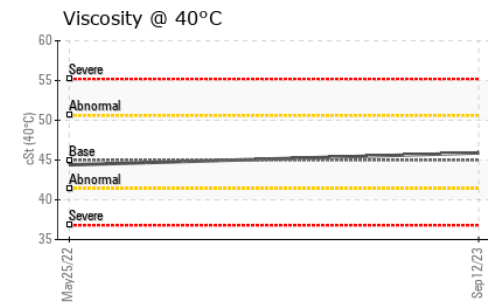
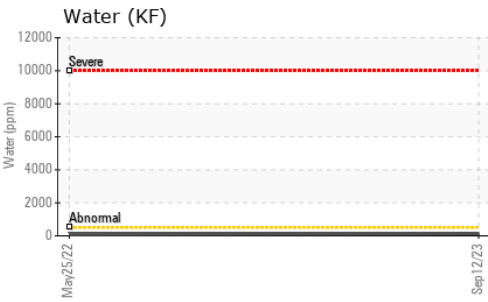
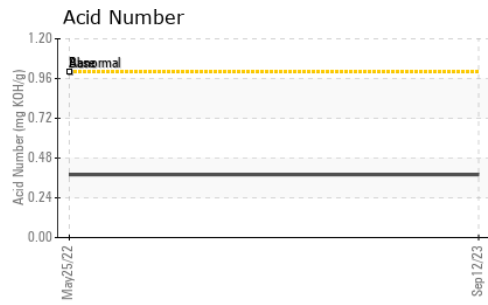
Moderate concentration of visible dirt/debris present in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>&lt;1</b>	<1	---
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	0	---
Water	%	ASTM D6304	>0.05	<b>0.013</b>	0.008	---
ppm Water	ppm	ASTM D6304	>500	<b>132.5</b>	86.3	---
Particles >4µm		ASTM D7647		<b>---</b>	3886	---
Particles >6µm		ASTM D7647	>1300	<b>---</b>	897	---
Particles >14µm		ASTM D7647	>80	<b>---</b>	54	---
Particles >21µm		ASTM D7647	>20	<b>---</b>	13	---
Particles >38µm		ASTM D7647	>4	<b>---</b>	0	---
Particles >71µm		ASTM D7647	>3	<b>---</b>	0	---
Oil Cleanliness		ISO 4406 (c)	>-/17/13	<b>---</b>	19/17/13	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>▲ MODER</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	---

## FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<b>3</b>	6	---
Boron	ppm	ASTM D5185m	0	<b>0</b>	0	---
Barium	ppm	ASTM D5185m	90	<b>34</b>	2	---
Molybdenum	ppm	ASTM D5185m	0	<b>0</b>	0	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185m	100	<b>59</b>	27	---
Calcium	ppm	ASTM D5185m	0	<b>1</b>	<1	---
Phosphorus	ppm	ASTM D5185m	0	<b>1</b>	6	---
Zinc	ppm	ASTM D5185m	0	<b>7</b>	9	---
Sulfur	ppm	ASTM D5185m	23500	<b>21108</b>	20042	---
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	<b>0.38</b>	0.38	---
Visc @ 40°C	cSt	ASTM D445	45	<b>45.9</b>	44.4	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KCPA003854 **Received** : 21 Sep 2023  
**Lab Number** : 05957683 **Tested** : 22 Sep 2023  
**Unique Number** : 10658896 **Diagnosed** : 22 Sep 2023 - Doug Bogart  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**PENSKE TRUCK LEASING**  
 15500 E 32ND AVE  
 AURORA, CO  
 US 80011  
 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: