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# OIL ANALYSIS REPORT

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

Machine Id  
**KAESER AS 25T 4563336 (S/N 1151)**  
 Component  
**Compressor**  
 Fluid  
**KAESER SIGMA (OEM) M-460 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>KCPA011269</b>	KCPA006309	KCP28976
Sample Date		Client Info		<b>26 Dec 2023</b>	14 Dec 2023	29 Jan 2021
Machine Age	hrs	Client Info		<b>27064</b>	27036	23849
Oil Age	hrs	Client Info		<b>0</b>	0	3319
Filter Age	hrs	Client Info		<b>0</b>	0	3319
Oil Changed		Client Info		<b>N/A</b>	N/A	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<b>0</b>	0	<1
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Lead	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>50	<b>0</b>	<1	3
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

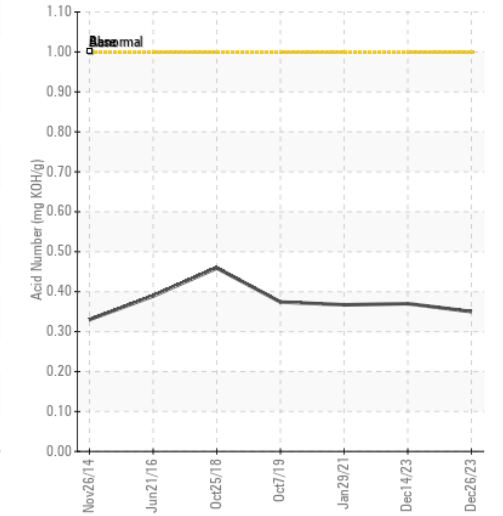
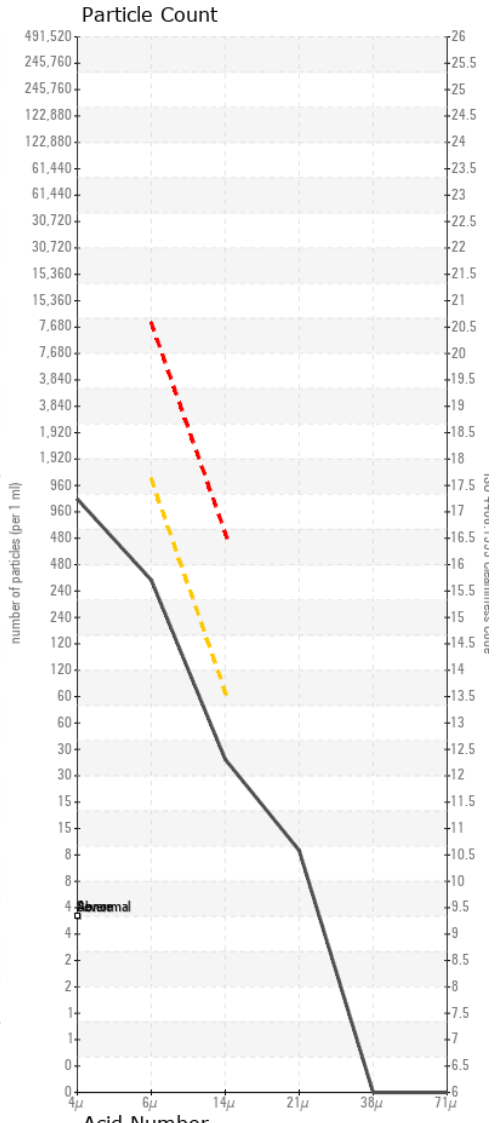
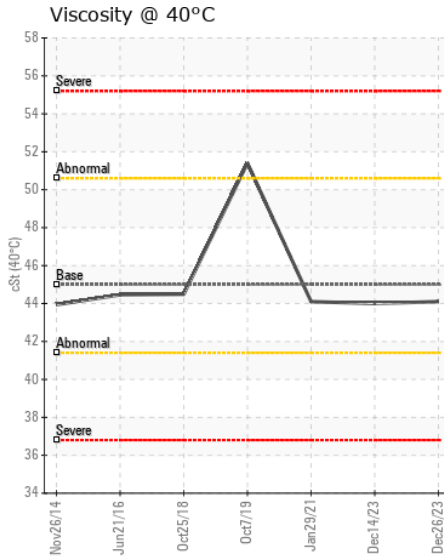
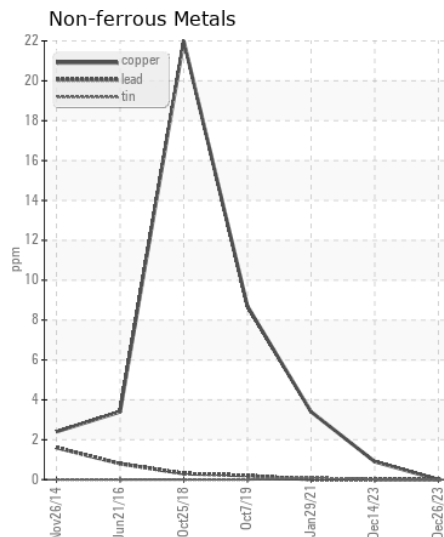
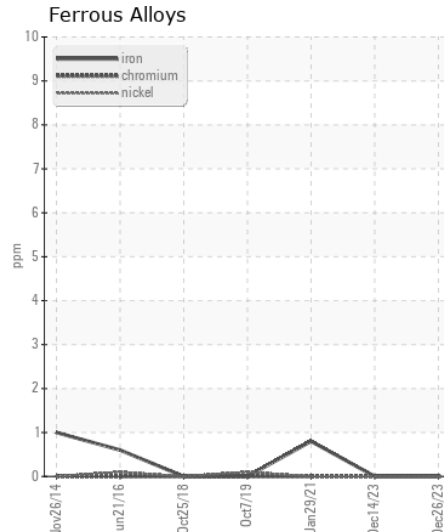
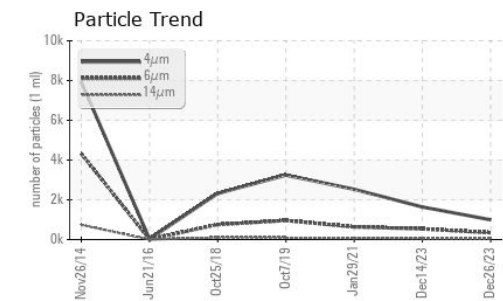
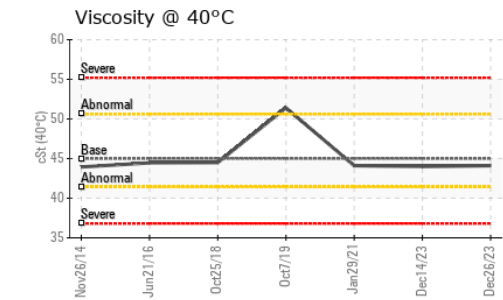
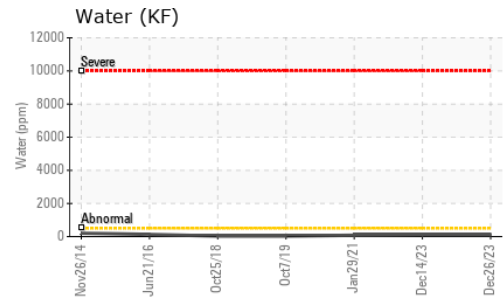
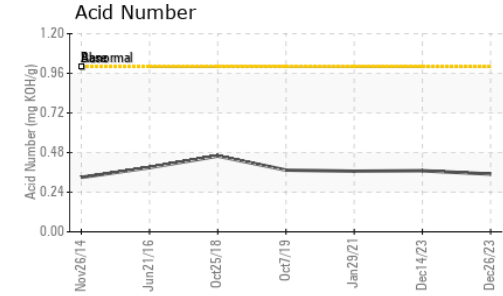
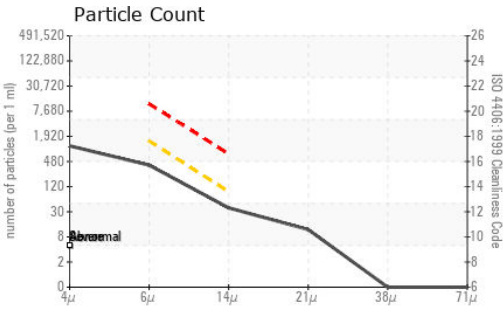
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>25	<b>0</b>	0	<1
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	<1
Water	%	ASTM D6304	>0.05	<b>0.011</b>	0.011	0.008
ppm Water	ppm	ASTM D6304	>500	<b>113</b>	116	80.2
Particles >4µm		ASTM D7647		<b>995</b>	1640	2530
Particles >6µm		ASTM D7647	>1300	<b>345</b>	540	639
Particles >14µm		ASTM D7647	>80	<b>33</b>	50	65
Particles >21µm		ASTM D7647	>20	<b>10</b>	13	19
Particles >38µm		ASTM D7647	>4	<b>0</b>	1	0
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	---/17/13	<b>17/16/12</b>	18/16/13	16/13
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	<b>NEG</b>	NEG	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>2</b>	8	5
Boron	ppm	ASTM D5185m	0	<b>0</b>	0	<1
Barium	ppm	ASTM D5185m	90	<b>76</b>	0	10
Molybdenum	ppm	ASTM D5185m	0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185m	100	<b>86</b>	29	32
Calcium	ppm	ASTM D5185m	0	<b>1</b>	0	0
Phosphorus	ppm	ASTM D5185m	0	<b>4</b>	0	5
Zinc	ppm	ASTM D5185m	0	<b>0</b>	0	1
Sulfur	ppm	ASTM D5185m	23500	<b>18524</b>	16896	16199
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	<b>0.35</b>	0.37	0.367
Visc @ 40°C	cSt	ASTM D445	45	<b>44.1</b>	44.0	44.1



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KCPA011269 **Received** : 10 Jan 2024  
**Lab Number** : 06056692 **Tested** : 11 Jan 2024  
**Unique Number** : 10822641 **Diagnosed** : 11 Jan 2024 - Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**CARMAX**  
 2600 W 104TH ST  
 FEDERAL HEIGHTS, CO  
 US 80234  
 Contact: SERVICE MANAGER

Certificate L2367  
 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)