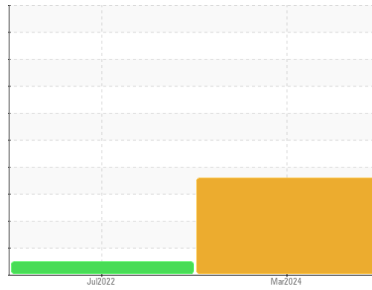




# OIL ANALYSIS REPORT

## Sample Rating Trend



**WATER**



Machine Id

**KAESER 7875322**

Component

**Compressor**

Fluid

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

### DIAGNOSIS

#### ▲ Recommendation

The filter change at the time of sampling has been noted. We advise that you stop the unit and follow the water drain-off procedure for this component. We recommend an early resample in 500 hours to monitor this condition.

#### Wear

All component wear rates are normal.

#### ▲ Contamination

There is a high amount of particulates present in the oil. There is a light concentration of water 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>KCPA016801</b>	KCP51579	---
Sample Date	Client Info			<b>27 Mar 2024</b>	12 Jul 2022	---
Machine Age	hrs	Client Info		<b>5244</b>	1859	---
Oil Age	hrs	Client Info		<b>1769</b>	1859	---
Oil Changed	Client Info			<b>Not Chngd</b>	Changed	---
Sample Status				<b>ABNORMAL</b>	NORMAL	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<b>1</b>	<1	---
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	---
Nickel	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	---
Titanium	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	---
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>10	<b>2</b>	<1	---
Lead	ppm	ASTM D5185m	>10	<b>1</b>	0	---
Copper	ppm	ASTM D5185m	>50	<b>8</b>	4	---
Tin	ppm	ASTM D5185m	>10	<b>1</b>	0	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Cadmium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---

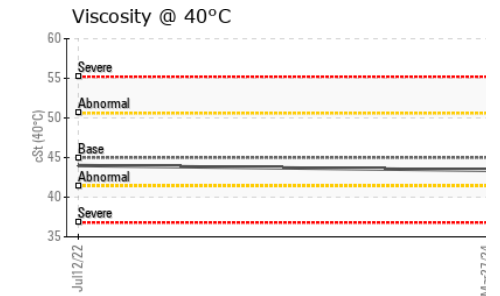
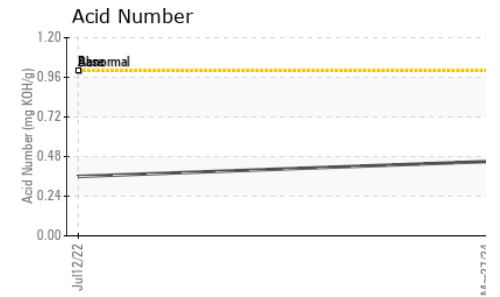
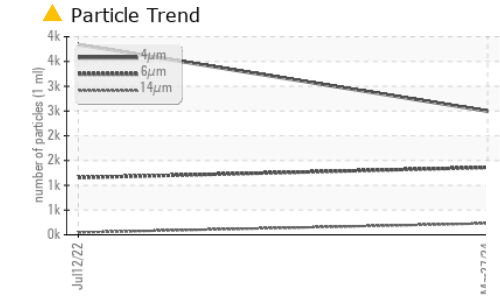
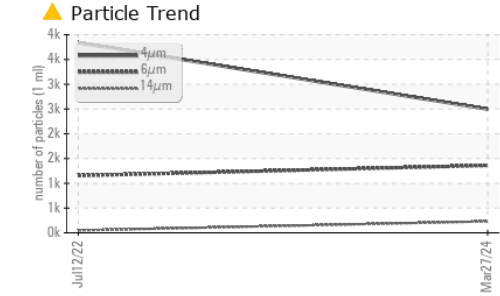
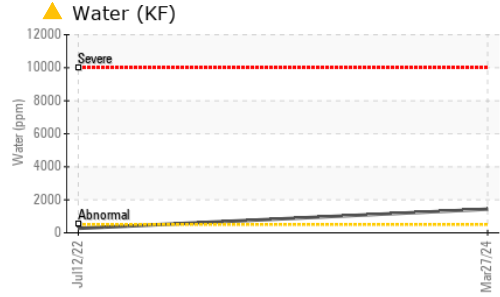
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<b>0</b>	8	---
Barium	ppm	ASTM D5185m	90	<b>0</b>	14	---
Molybdenum	ppm	ASTM D5185m	0	<b>&lt;1</b>	0	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Magnesium	ppm	ASTM D5185m	100	<b>17</b>	63	---
Calcium	ppm	ASTM D5185m	0	<b>4</b>	<1	---
Phosphorus	ppm	ASTM D5185m	0	<b>1</b>	1	---
Zinc	ppm	ASTM D5185m	0	<b>6</b>	6	---
Sulfur	ppm	ASTM D5185m	23500	<b>18075</b>	21004	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>1</b>	<1	---
Sodium	ppm	ASTM D5185m		<b>3</b>	10	---
Potassium	ppm	ASTM D5185m	>20	<b>6</b>	10	---
Water	%	ASTM D6304	>0.05	<b>▲ 0.143</b>	0.026	---
ppm Water	ppm	ASTM D6304	>500	<b>▲ 1433</b>	269.6	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		<b>2497</b>	3839	---
Particles >6µm		ASTM D7647	>1300	<b>▲ 1360</b>	1154	---
Particles >14µm		ASTM D7647	>80	<b>▲ 231</b>	48	---
Particles >21µm		ASTM D7647	>20	<b>▲ 78</b>	11	---
Particles >38µm		ASTM D7647	>4	<b>▲ 12</b>	0	---
Particles >71µm		ASTM D7647	>3	<b>1</b>	0	---
Oil Cleanliness		ISO 4406 (c)	>--/17/13	<b>▲ 18/18/15</b>	19/17/13	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	<b>0.45</b>	0.36	---

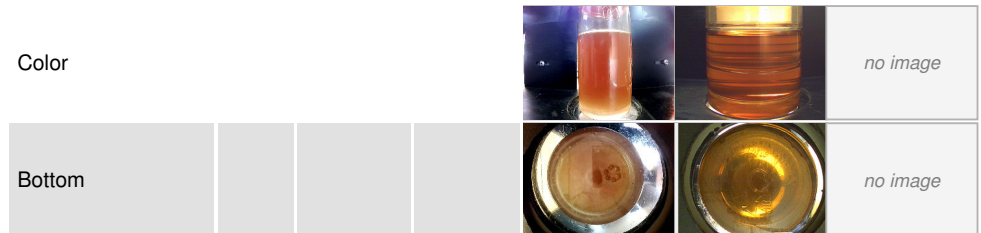
# OIL ANALYSIS REPORT



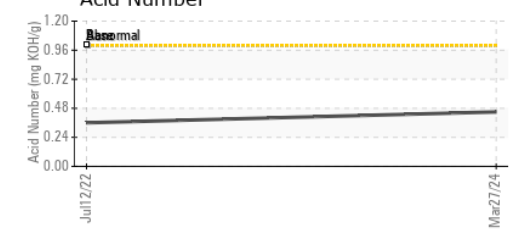
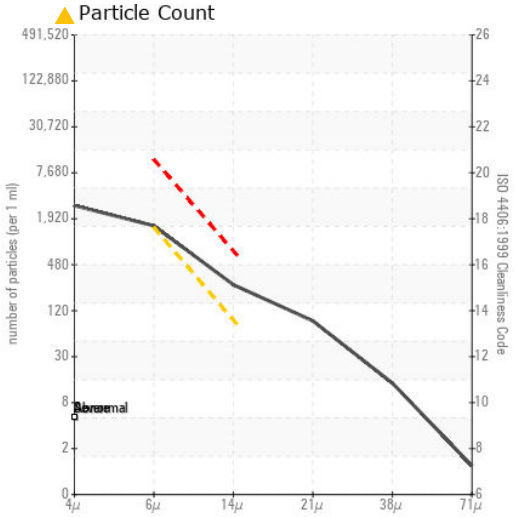
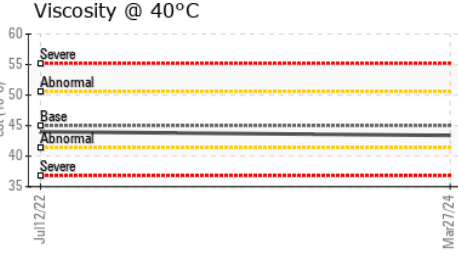
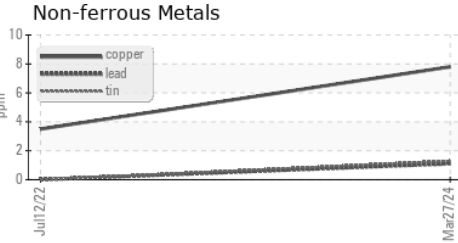
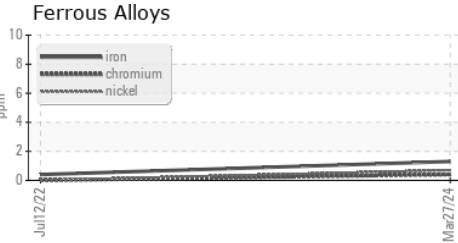
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*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	45	43.4	44.0

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KCPA016801 **Received** : 01 Apr 2024  
**Lab Number** : 06135673 **Tested** : 08 Apr 2024  
**Unique Number** : 10955138 **Diagnosed** : 08 Apr 2024 - Jonathan Hester  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**SHERWIN WILLIAMS**  
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 WICHITA, KS  
 US 67219  
 Contact: DAVID GIVENS  
 DAVID.M.GIVENS@SHERWIN.COM

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)