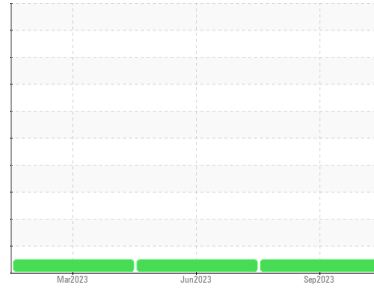




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**8256127 (S/N 1184)**

Component  
**Compressor**

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

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

The amount and size of particulates present in the system are acceptable.

### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>KC102979</b>	KC100952	KC112384
Sample Date	Client Info			<b>22 Sep 2023</b>	15 Jun 2023	21 Mar 2023
Machine Age	hrs	Client Info		<b>892</b>	569	338
Oil Age	hrs	Client Info		<b>892</b>	569	338
Oil Changed	Client Info			<b>Changed</b>	Not Changd	Not Changd
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<b>&lt;1</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	0
Aluminum	ppm	ASTM D5185m	>10	<b>5</b>	3	2
Lead	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>50	<b>8</b>	5	4
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

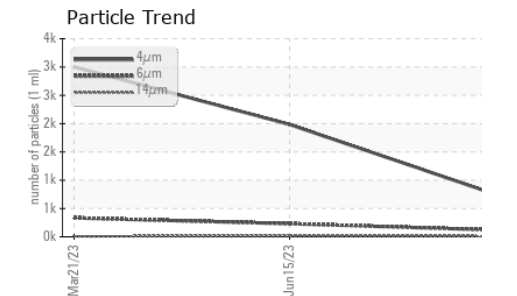
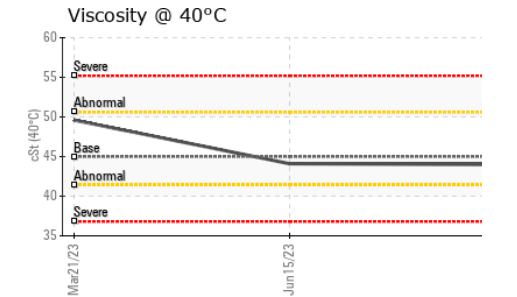
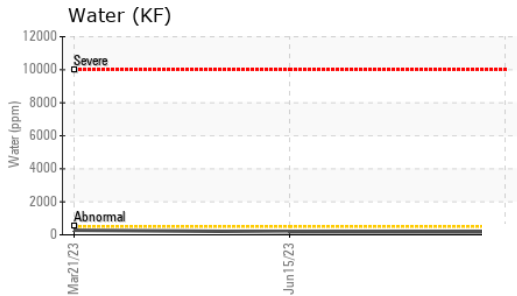
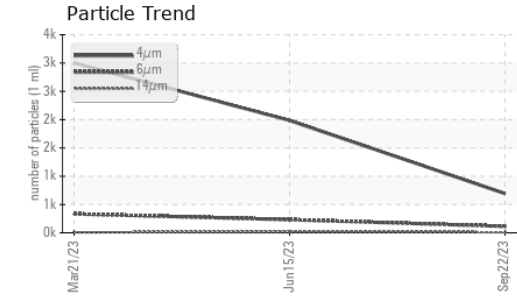
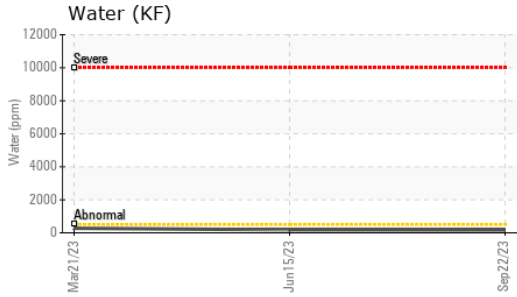
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<b>0</b>	0	0
Barium	ppm	ASTM D5185m	90	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Magnesium	ppm	ASTM D5185m	100	<b>18</b>	34	62
Calcium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Phosphorus	ppm	ASTM D5185m	0	<b>1</b>	5	3
Zinc	ppm	ASTM D5185m	0	<b>43</b>	16	8

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>1</b>	<1	0
Sodium	ppm	ASTM D5185m		<b>9</b>	9	9
Potassium	ppm	ASTM D5185m	>20	<b>22</b>	24	40
Water	%	ASTM D6304	>0.05	<b>0.017</b>	0.018	0.027
ppm Water	ppm	ASTM D6304	>500	<b>170.7</b>	182.4	274.2

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		<b>693</b>	1985	3002
Particles >6µm		ASTM D7647	>1300	<b>114</b>	232	334
Particles >14µm		ASTM D7647	>80	<b>9</b>	19	7
Particles >21µm		ASTM D7647	>20	<b>3</b>	10	2
Particles >38µm		ASTM D7647	>4	<b>0</b>	4	0
Particles >71µm		ASTM D7647	>3	<b>0</b>	2	0
Oil Cleanliness		ISO 4406 (c)	>--/17/13	<b>17/14/10</b>	18/15/11	19/16/10

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	<b>0.29</b>	0.39	0.37

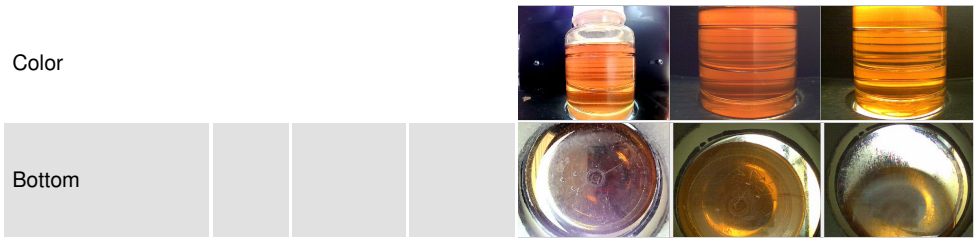
# OIL ANALYSIS REPORT



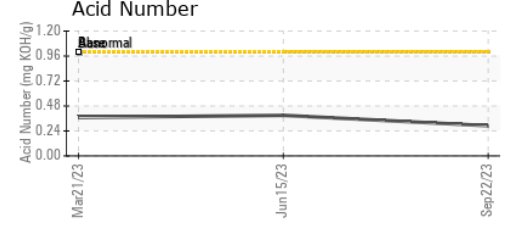
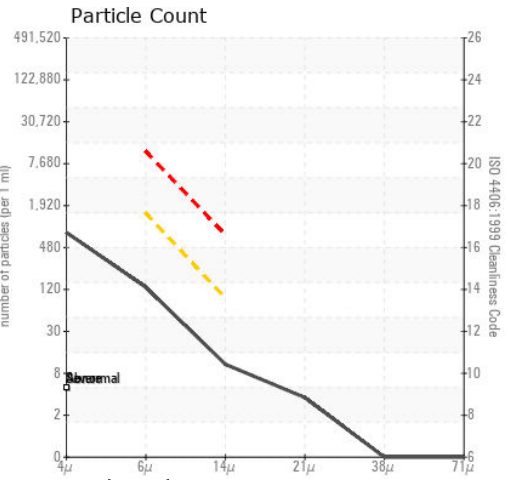
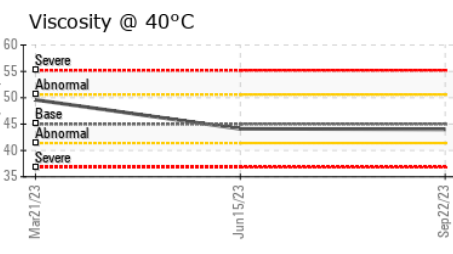
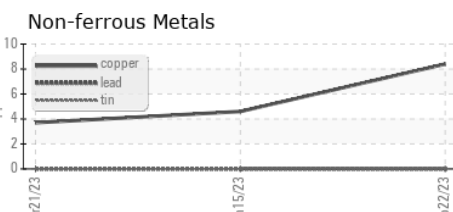
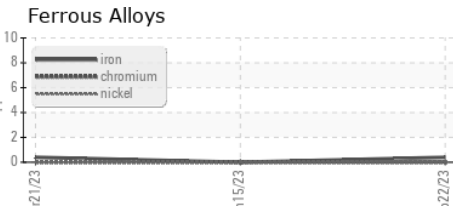
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45	44.1	49.6

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KC102979 **Received** : 04 Oct 2023  
**Lab Number** : 05969678 **Diagnosed** : 09 Oct 2023  
**Unique Number** : 10676229 **Diagnostician** : Angela Borella  
**Test Package** : IND 2

**MAPEI WILDWOOD PLANT**  
 4405 NW 82ND AVE  
 WILDWOOD, FL  
 US 34785  
 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)

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