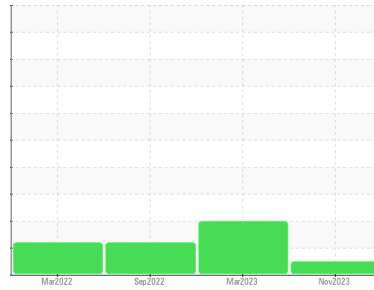


# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**5191631 (S/N 1039)**

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. There is no indication of any contamination 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>KCPA007810</b>	KCPA001031	KCP44545
Sample Date	Client Info			<b>01 Nov 2023</b>	31 Mar 2023	12 Sep 2022
Machine Age	hrs	Client Info		<b>19543</b>	17960	16651
Oil Age	hrs	Client Info		<b>0</b>	0	1000
Oil Changed	Client Info			<b>N/A</b>	N/A	Changed
Sample Status				<b>NORMAL</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	>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>0</b>	2	<1
Lead	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>50	<b>4</b>	3	10
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

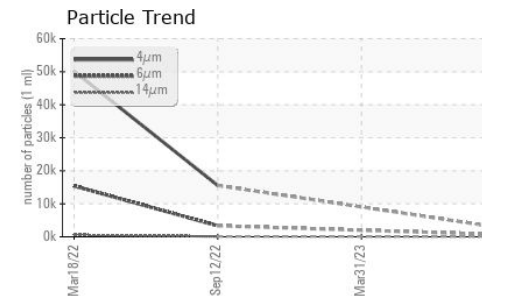
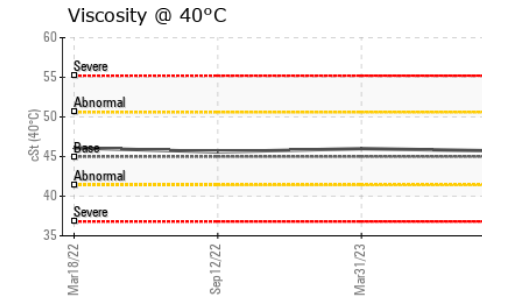
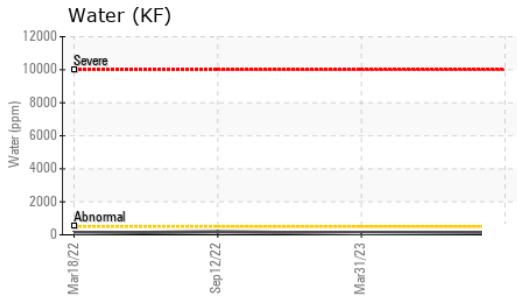
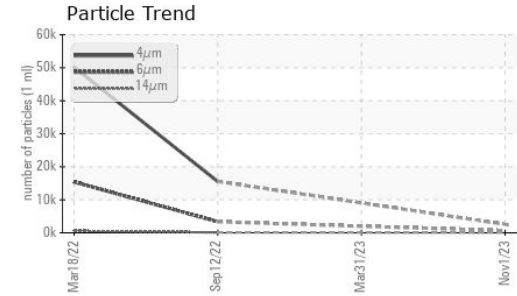
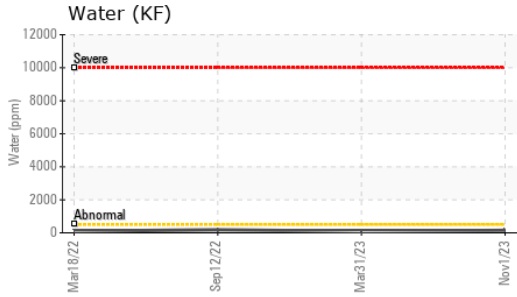
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<b>0</b>	0	0
Barium	ppm	ASTM D5185m	90	<b>1</b>	0	0
Molybdenum	ppm	ASTM D5185m	0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185m	100	<b>50</b>	45	31
Calcium	ppm	ASTM D5185m	0	<b>0</b>	3	0
Phosphorus	ppm	ASTM D5185m	0	<b>3</b>	7	14
Zinc	ppm	ASTM D5185m	0	<b>10</b>	32	119
Sulfur	ppm	ASTM D5185m	23500	<b>20780</b>	21531	20743

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>&lt;1</b>	▲ 40	0
Sodium	ppm	ASTM D5185m		<b>11</b>	11	11
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	2	<1
Water	%	ASTM D6304	>0.05	<b>0.015</b>	0.008	0.018
ppm Water	ppm	ASTM D6304	>500	<b>150.1</b>	86.5	185.8

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		<b>2556</b>	---	15550
Particles >6µm		ASTM D7647	>1300	<b>641</b>	---	▲ 3339
Particles >14µm		ASTM D7647	>80	<b>26</b>	---	▲ 88
Particles >21µm		ASTM D7647	>20	<b>7</b>	---	8
Particles >38µm		ASTM D7647	>4	<b>0</b>	---	0
Particles >71µm		ASTM D7647	>3	<b>0</b>	---	0
Oil Cleanliness		ISO 4406 (c)	>--/17/13	<b>19/17/12</b>	---	▲ 21/19/14

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	<b>0.36</b>	0.38	0.38

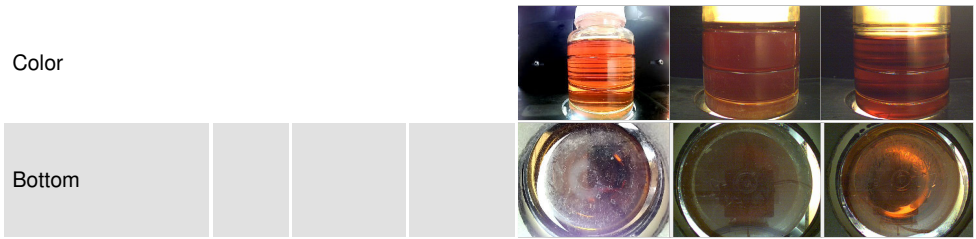
# OIL ANALYSIS REPORT



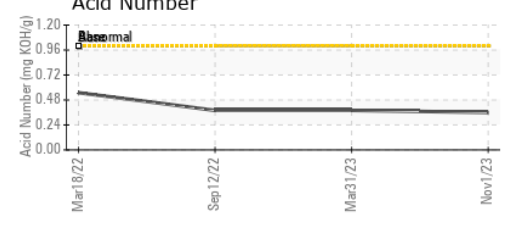
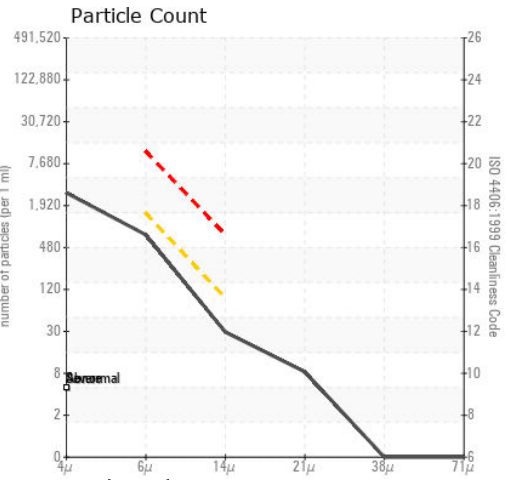
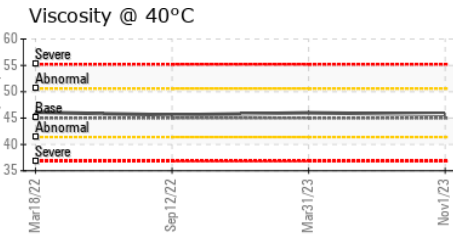
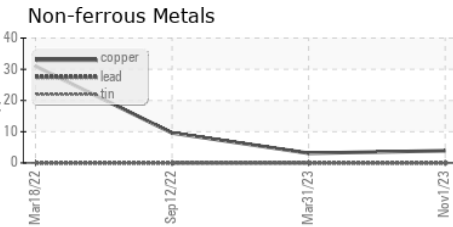
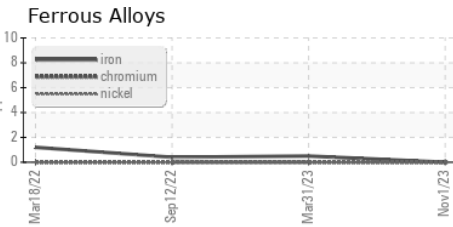
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	45.7	46.0	45.6

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KCPA007810 **Received** : 15 Nov 2023  
**Lab Number** : 06008335 **Diagnosed** : 17 Nov 2023  
**Unique Number** : 10742097 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**DIAZ MARBLE & GRANITE**  
 6271 BEACH ST, UNIT D  
 DENVER, CO  
 US 80221  
 Contact: Service Manager  
 diazmarblegranite@hotmail.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)

T:  
F: