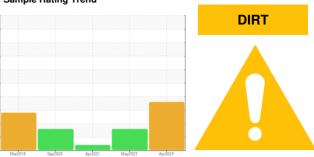


# **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

# KAESER SX 6 3264478 (S/N 3541)

Compressor

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

### **DIAGNOSIS**

### Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

All component wear rates are normal.

## Contamination

There is a high amount of particulates present in the oil. Elemental level of silicon (Si) above normal indicating ingress of seal material.

### **Fluid Condition**

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

		Mar2018	Sep2020	Apr2021 May2023	Apr2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA012761	KCP52313	KCP30136
Sample Date		Client Info		15 Apr 2024	01 May 2023	19 Apr 2021
Machine Age	hrs	Client Info		44718	36485	22506
Oil Age	hrs	Client Info		8233	28643	0
Oil Changed		Client Info		Changed	Changed	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<1	0	<1
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Nickel	ppm	ASTM D5185m	>3	<1	0	0
Titanium	ppm	ASTM D5185m	>3	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>10	2	0	<1
Lead	ppm	ASTM D5185m	>10	<1	0	<1
Copper	ppm	ASTM D5185m	>50	10	15	12
Tin	ppm	ASTM D5185m	>10	<1	0	<1
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	11
Barium	ppm	ASTM D5185m	90	0	2	54
Molybdenum	ppm	ASTM D5185m	0	<1	0	0
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m	100	1	2	65
Calcium	ppm	ASTM D5185m	0	0	0	5
Phosphorus	ppm	ASTM D5185m	0	2	0	3
Zinc	ppm	ASTM D5185m	0	0	0	3
Sulfur	ppm	ASTM D5185m	23500	18508	18723	19491
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>46</b>	<u>^</u> 80	12
Sodium	ppm	ASTM D5185m		0	0	18
Potassium	ppm	ASTM D5185m	>20	2	<1	1
Water	%	ASTM D6304	>0.05	0.003	0.001	0.028
ppm Water	ppm	ASTM D6304	>500	28	7.5	288.0
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		57151	4384	
Particles >6µm		ASTM D7647	>1300	<u> </u>	904	
Particles >14μm		ASTM D7647	>80	<b>1068</b>	58	
Particles >21µm		ASTM D7647	>20	<b>^</b> 266	15	
Particles >38μm		ASTM D7647	>4	<u> </u>	0	
Particles >71μm		ASTM D7647	>3	0	0	
Oil Cleanliness		ISO 4406 (c)	>/17/13	<b>23/21/17</b>	19/17/13	

Acid Number (AN)

mg KOH/g ASTM D8045 1.0

0.54 Contact/Location: JEFF JONES - OLDLOC

0.442



## OIL ANALYSIS REPORT







Certificate 12367

Laboratory

Sample No. Lab Number

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : KCPA012761 : 06155194

Unique Number: 10990617

Received : 19 Apr 2024 **Tested** : 24 Apr 2024 : 24 Apr 2024 - Jonathan Hester Diagnosed

Test Package : IND 2 ( Additional Tests: KF, PrtCount ) To discuss this sample report, contact Customer Service at 1-800-237-1369.

 $^st$  - 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)

**OLD DOMINION FREIGHT LINES** 

200 INDEPENDENCE AVE LOCKWOOD, NV US 89434

Contact: JEFF JONES jeff.jones@odfl.com T:

Contact/Location: JEFF JONES - OLDLOC

F: