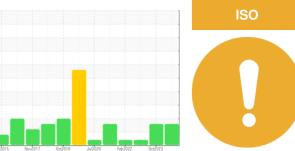


# **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

# KAESER SFC 55 4366417 (S/N 1011)

Compressor

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

### 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 moderate amount of particulates present in the oil.

### **Fluid Condition**

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

		Jun2015	Nov2017 Oct2018	Jul2020 Feb2022 04	12023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA016611	KCPA007884	KCP49075
Sample Date		Client Info		16 Apr 2024	20 Oct 2023	28 Sep 2022
Machine Age	hrs	Client Info		92149	89893	83182
Oil Age	hrs	Client Info		2256	0	3000
Oil Changed		Client Info		Changed	N/A	Not Changd
Sample Status				ATTENTION	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	0	0
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Nickel	ppm	ASTM D5185m	>3	<1	<1	0
Titanium	ppm	ASTM D5185m	>3	<1	0	0
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>10	3	0	0
Lead	ppm	ASTM D5185m	>10	<1	<1	0
Copper	ppm	ASTM D5185m	>50	6	6	8
Tin	ppm	ASTM D5185m	>10	<1	<1	0
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	0
Barium	ppm	ASTM D5185m	90	2	0	2
Molybdenum	ppm	ASTM D5185m	0	<1	0	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m	100	4	<1	<1
Calcium	ppm	ASTM D5185m	0	0	1	0
Phosphorus	ppm	ASTM D5185m	0	0	<1	8
Zinc	ppm	ASTM D5185m	0	0	0	0
Sulfur	ppm	ASTM D5185m	23500	19553	15668	18008
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	<1	2
Sodium	ppm	ASTM D5185m		0	<1	0
Potassium	ppm	ASTM D5185m	>20	2	1	<1
Water	%	ASTM D6304	>0.05	0.008	0.004	0.003
ppm Water	ppm	ASTM D6304	>500	84	40	29.3
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		5753	12332	
Particles >6µm		ASTM D7647	>1300	<b>1589</b>	<b>▲</b> 4025	
Particles >14μm		ASTM D7647	>80	<b>121</b>	▲ 311	
Particles >21µm		ASTM D7647	>20	<b>31</b>	<u></u> 81	
Particles >38µm		ASTM D7647	>4	1	5	
Particles >71μm		ASTM D7647	>3	0	1	
Oil Cleanliness		ISO 4406 (c)	>/17/13	0 20/18/14	<u>^</u> 21/19/15	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2



## **OIL ANALYSIS REPORT**







Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : KCPA016611 Lab Number : 06156931 Unique Number: 10992354

Received **Tested** Diagnosed

: 24 Apr 2024 : 24 Apr 2024 - Angela Borella Test Package : IND 2 ( Additional Tests: KF, PrtCount )

: 22 Apr 2024

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. **HEARTLAND SHEETS LLC** 

3950 N KIMBALL DR KANSAS CITY, MO US 64161

Contact: R. ROLLINGS

rrollings@heartlandsheets.com T:

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) Report Id: HEAKAN [WUSCAR] 06156931 (Generated: 04/24/2024 17:36:56) Rev: 1

Contact/Location: R. ROLLINGS - HEAKAN

F: