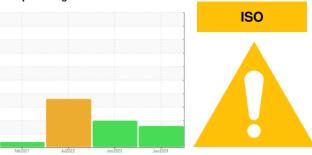


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

5523600 (S/N 1052)

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.

Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates 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 INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA018812	KCPA005322	KCP40567
Sample Date		Client Info		17 Jun 2024	14 Jun 2023	12 Jul 2022
Machine Age	hrs	Client Info		13680	10787	8783
Oil Age	hrs	Client Info		3000	0	3000
Oil Changed		Client Info		Changed	N/A	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<1	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	<1
Aluminum	ppm	ASTM D5185m	>10	3	0	<1
Lead	ppm	ASTM D5185m	>10	<1	0	0
Copper	ppm	ASTM D5185m	>50	14	15	10
Tin	ppm	ASTM D5185m	>10	<1	0	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	8
Barium	ppm	ASTM D5185m	90	27	30	0
Molybdenum	ppm	ASTM D5185m	0	<1	0	0
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m	100	44	57	23
Calcium	ppm	ASTM D5185m	0	0	3	0
Phosphorus	ppm	ASTM D5185m	0	3	2	<1
Zinc	ppm	ASTM D5185m	0	14	0	17
Sulfur	ppm	ASTM D5185m	23500	21631	26858	23302
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	<1	<1
Sodium	ppm	ASTM D5185m		4	19	10
Potassium	ppm	ASTM D5185m	>20	13	5	<1
Water	%	ASTM D6304	>0.05	0.020	0.021	△ 0.261
ppm Water	ppm	ASTM D6304	>500	203	216.0	<u>^</u> 2610
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		50851	19880	
Particles >6µm		ASTM D7647	>1300	<u> </u>	<u>▲</u> 6370	
Particles >14μm		ASTM D7647	>80	<u> </u>	483	
Particles >21µm		ASTM D7647	>20	<u> </u>	<u>136</u>	
Particles >38μm		ASTM D7647	>4	1	<u>6</u>	
Particles >71μm		ASTM D7647	>3	0	0	
Oil Cleanliness		ISO 4406 (c)	>/17/13	<u>23/21/16</u>	<u>\$\text{21/20/16}\$</u>	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

0.34



OIL ANALYSIS REPORT







Certificate 12367

Sample No.

Laboratory

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

: KCPA018812 Lab Number : 06218766 Unique Number : 11096963

Received **Tested** Diagnosed

Test Package : IND 2 (Additional Tests: KF, PrtCount)

: 25 Jun 2024 : 26 Jun 2024 - Jonathan Hester

FRENZELIT INC 4165 OLD SALISBURY RD LEXINGTON, NC US 27295

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)

: 24 Jun 2024

T:

F: