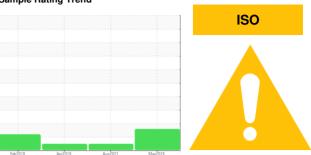


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

KAESER SK 19 1115601 (S/N 1037)

Compressor

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

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. 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.

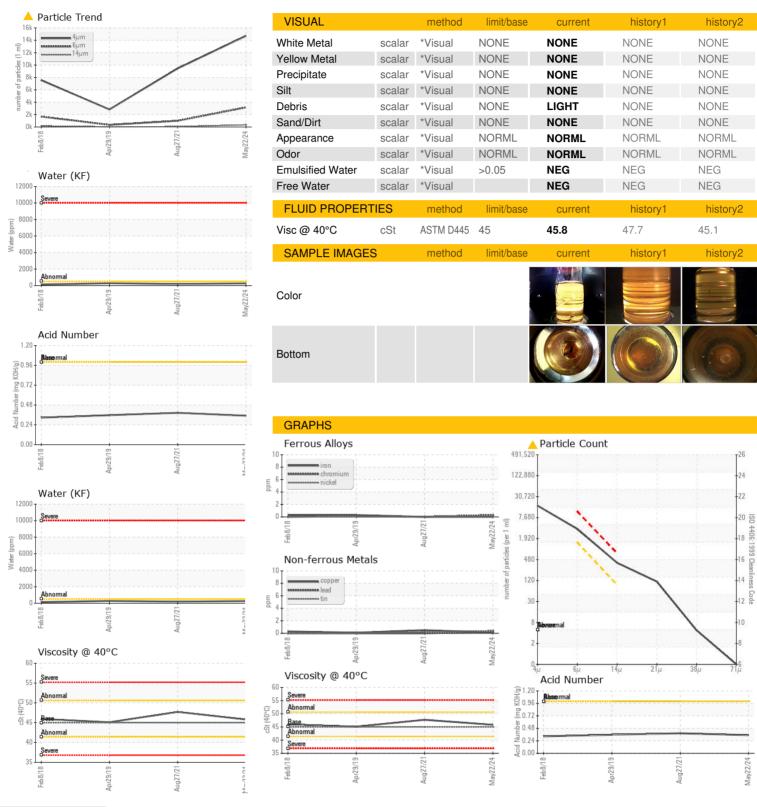
Fluid Condition

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

		Feb 201	8 Apr2019	Aug2021 Ma	y2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA017937	KCP37020	KCP19254
Sample Date		Client Info		22 May 2024	27 Aug 2021	29 Apr 2019
Machine Age	hrs	Client Info		26245	24404	23014
Oil Age	hrs	Client Info		968	1159	1455
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	0	<1
Chromium	ppm	ASTM D5185m	>10	<1	0	<1
Nickel	ppm	ASTM D5185m	>3	0	0	0
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	1
Aluminum	ppm	ASTM D5185m	>10	3	0	<1
Lead	ppm	ASTM D5185m	>10	<1	0	0
Copper	ppm	ASTM D5185m	>50	<1	<1	<1
Tin	ppm	ASTM D5185m	>10	<1	<1	0
Antimony	ppm	ASTM D5185m			0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	13	<1
Barium	ppm	ASTM D5185m	90	15	11	33
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	100	79	69	81
Calcium	ppm	ASTM D5185m	0	0	0	4
Phosphorus	ppm	ASTM D5185m	0	0	4	<1
Zinc	ppm	ASTM D5185m	0	6	4	4
Sulfur	ppm	ASTM D5185m	23500	23510	16708	17160
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	0	<1
Sodium	ppm	ASTM D5185m		15	14	14
Potassium	ppm	ASTM D5185m	>20	4	<1	2
Water	%	ASTM D6304	>0.05	0.026	0.019	0.028
ppm Water	ppm	ASTM D6304	>500	263	190.5	280
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		14705	9454	2828
Particles >6µm		ASTM D7647	>1300	△ 3160	1002	336
Particles >14µm		ASTM D7647	>80	4 341	54	18
Particles >21µm		ASTM D7647	>20	<u>^</u> 99	14	4
Particles >38µm		ASTM D7647	>4	4	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/17/13	<u>^</u> 21/19/16	17/13	16/11



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

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

: KCPA017937 : 06199132

Lab Number Unique Number : 11061255

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

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Received

Diagnosed

Tested

: 04 Jun 2024

: 05 Jun 2024

: 06 Jun 2024 - Don Baldridge

* - 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)

Contact: Service Manager

Report Id: TOWCOLOH [WUSCAR] 06199132 (Generated: 06/06/2024 14:01:06) Rev: 1

Contact/Location: Service Manager - TOWCOLOH

TOWLIFT INC

US 43228

T:

F:

1200 MILEPOST DR

COLUMBUS, OH