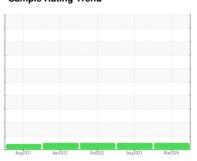


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **7737366 (S/N 3133)**Component
Compressor

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

Recommendation

Resample at the next service interval to monitor.

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.

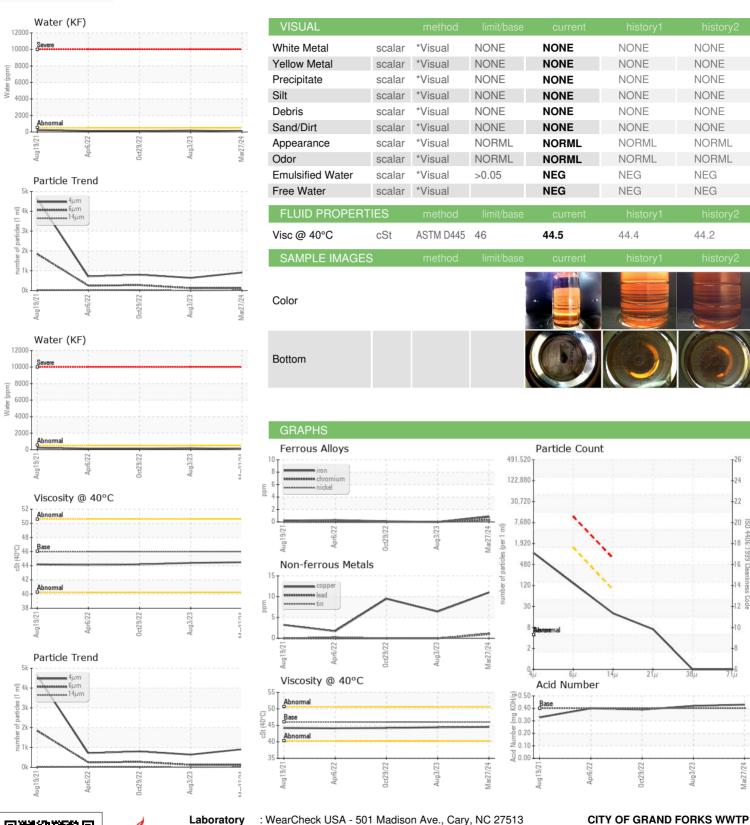
Fluid Condition

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

		Aug2021	Apr2022	Oct2022 Aug2023	Mar2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA013769	KCPA005669	KCP47793
Sample Date		Client Info		27 Mar 2024	03 Aug 2023	29 Oct 2022
Machine Age	hrs	Client Info		14695	11741	8613
Oil Age	hrs	Client Info		0	0	2964
Oil Changed		Client Info		Changed	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL
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	<1	0
Aluminum	ppm	ASTM D5185m	>10	2	1	<1
Lead	ppm	ASTM D5185m	>10	1	0	0
Copper	ppm	ASTM D5185m	>50	11	6	10
Tin	ppm	ASTM D5185m	>10	1	0	0
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
Barium	ppm	ASTM D5185m	90	0	0	0
Molybdenum	ppm	ASTM D5185m		<1	0	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m	90	14	25	19
Calcium	ppm	ASTM D5185m	2	4	0	0
Phosphorus	ppm	ASTM D5185m		<1	0	4
Zinc	ppm	ASTM D5185m		92	70	101
Sulfur	ppm	ASTM D5185m		21592	22427	21792
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	0	<1
Sodium	ppm	ASTM D5185m		3	6	2
Potassium	ppm	ASTM D5185m	>20	3	6	3
Water	%	ASTM D6304	>0.05	0.010	0.017	0.012
ppm Water	ppm	ASTM D6304	>500	101	171.5	128.4
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		910	642	801
Particles >6µm		ASTM D7647	>1300	123	124	273
Particles >14µm		ASTM D7647	>80	17	5	31
Particles >21µm		ASTM D7647	>20	6	2	7
Particles >38µm		ASTM D7647	>4	0	0	1
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/17/13	17/14/11	17/14/10	17/15/12
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	0.43	0.42	0.39



OIL ANALYSIS REPORT







Certificate 12367

Report Id: CITGRAND [WUSCAR] 06135667 (Generated: 04/05/2024 16:53:01) Rev: 1

Laboratory Sample No.

Lab Number Unique Number : 10955132

: KCPA013769

: 06135667

Received **Tested**

: 03 Apr 2024 Diagnosed Test Package : IND 2 (Additional Tests: KF, PrtCount)

: 04 Apr 2024 - Don Baldridge

: 01 Apr 2024

3251 N 69TH ST GRAND FORKS, ND

US 58203

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)

Contact/Location: Service Manager - CITGRAND

T:

F: