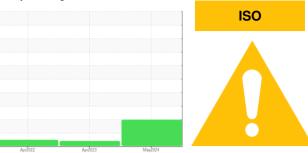


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

7475227 (S/N 1074)

Compressor

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

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.

April022 April023 May2024						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA016789	KCP52823	KCP45069
Sample Date		Client Info		14 May 2024	13 Apr 2023	25 Apr 2022
Machine Age	hrs	Client Info		9932	6361	2994
Oil Age	hrs	Client Info		4000	3367	2994
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	1	<1	1
Chromium	ppm	ASTM D5185m	>10	<1	0	<1
Nickel	ppm	ASTM D5185m	>3	<1	0	0
Titanium	ppm	ASTM D5185m	>3	<1	0	0
Silver	ppm	ASTM D5185m	>2	<1	0	1
Aluminum	ppm	ASTM D5185m	>10	2	0	<1
Lead	ppm	ASTM D5185m	>10	<1	0	<1
Copper	ppm	ASTM D5185m	>50	16	4	2
Tin	ppm	ASTM D5185m	>10	1	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	0
Barium	ppm	ASTM D5185m	90	0	0	0
Molybdenum	ppm	ASTM D5185m	0	<1	0	0
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	100	6	30	75
Calcium	ppm	ASTM D5185m	0	4	0	1
Phosphorus	ppm	ASTM D5185m	0	4	<1	3
Zinc	ppm	ASTM D5185m	0	63	34	0
Sulfur	ppm	ASTM D5185m	23500	22341	20298	17693
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	1	1
Sodium	ppm	ASTM D5185m		<1	13	9
Potassium	ppm	ASTM D5185m	>20	2	10	6
Water	%	ASTM D6304	>0.05	0.010	0.018	0.018
ppm Water	ppm	ASTM D6304	>500	101	188.3	182.5
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		15078		1690
Particles >6µm		ASTM D7647	>1300	△ 6274		397
Particles >14μm		ASTM D7647	>80	<u> </u>		56
Particles >21µm		ASTM D7647	>20	<u>▲</u> 351		19
Particles >38μm		ASTM D7647	>4	<u> </u>		0
Particles >71µm		ASTM D7647	>3	0		0
Oil Cleanliness		ISO 4406 (c)	>/17/13	<u>^</u> 21/20/17		16/13
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
A = ! = N (A N)		A OTA A DOO 45	4.0	0.420	0.05	0.00

Acid Number (AN)

mg KOH/g ASTM D8045 1.0

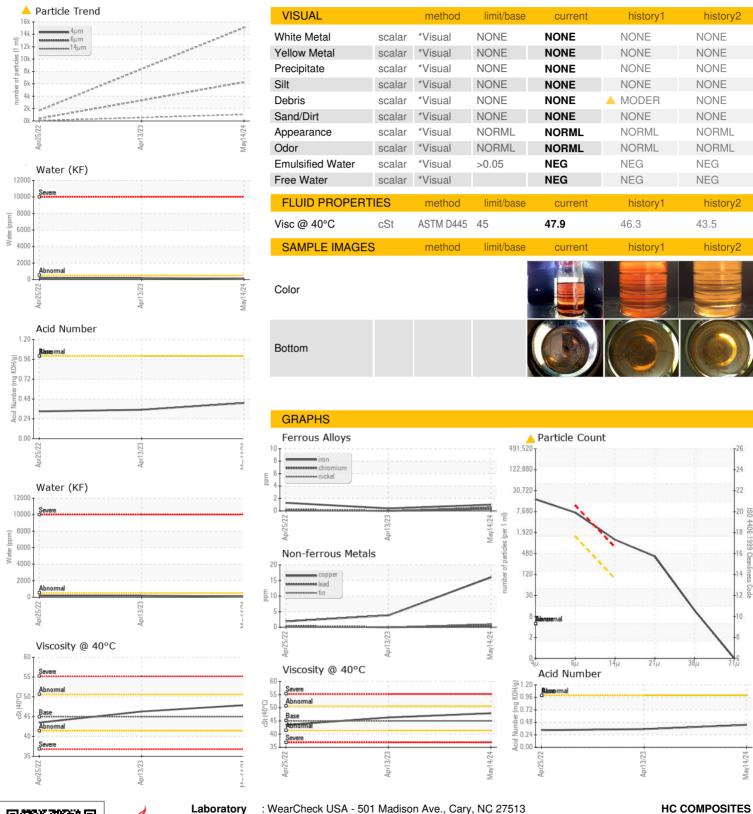
0.35

0.432

0.33



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

Lab Number

: KCPA016789 : 06183361 Unique Number : 11034687

Received **Tested** Diagnosed

: 21 May 2024 : 21 May 2024 - Don Baldridge

: 17 May 2024

Test Package : IND 2 (Additional Tests: KF, PrtCount) 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) **HC COMPOSITES** 601 STATON RD GREENVILLE, NC US 27834

Contact: R. JAMES rjames@worldcat.com

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