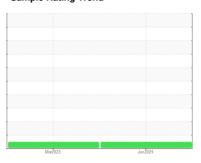


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id

KAESER 3628885

Component Compressor

KAESER SIGMA (OEM) M-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.

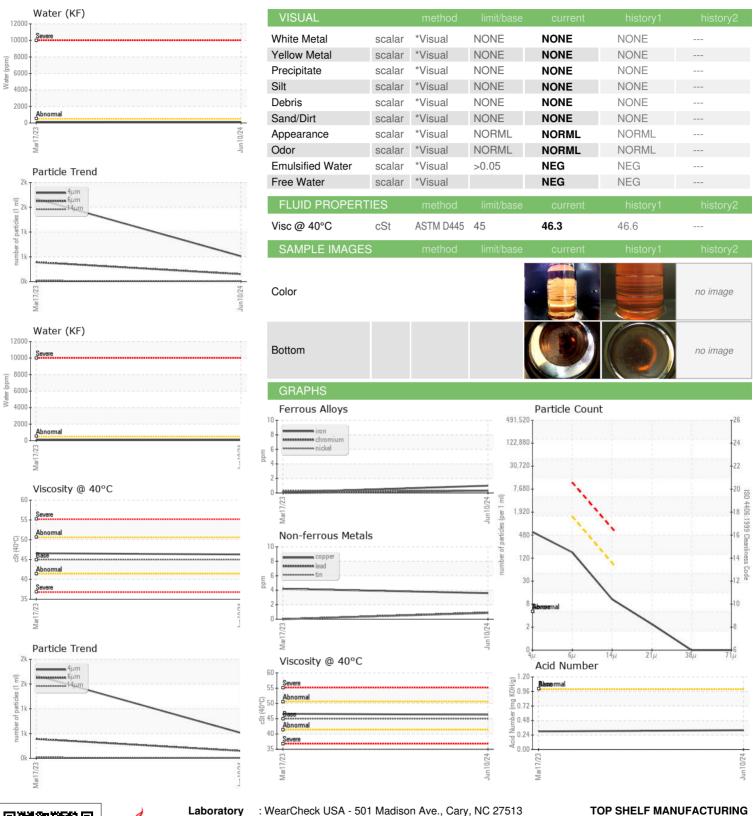
Fluid Condition

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

			Mar2023	Jun2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA014440	KCPA000415	
Sample Date		Client Info		10 Jun 2024	17 Mar 2023	
Machine Age	hrs	Client Info		63991	0	
Oil Age	hrs	Client Info		3418	0	
Oil Changed		Client Info		Changed	N/A	
Sample Status				NORMAL	NORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	1	<1	
Chromium	ppm	ASTM D5185m	>10	- <1	0	
Nickel	ppm	ASTM D5185m	>3	<1	<1	
Titanium		ASTM D5185m		<1	0	
Silver	ppm	ASTM D5185m	>2	<1	0	
Aluminum	ppm	ASTM D5185m	>10	3	<1	
	ppm					
Lead	ppm	ASTM D5185m	>10	<1 4	0	
Copper	ppm	ASTM D5185m		•		
Tin	ppm	ASTM D5185m	>10	<1	0	
Vanadium	ppm	ASTM D5185m		<1	0	
Cadmium	ppm	ASTM D5185m		<1	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	
Barium	ppm	ASTM D5185m	90	3	0	
Molybdenum	ppm	ASTM D5185m	0	<1	0	
Manganese	ppm	ASTM D5185m		<1	0	
Magnesium	ppm	ASTM D5185m	100	44	33	
Calcium	ppm	ASTM D5185m	0	0	<1	
Phosphorus	ppm	ASTM D5185m	0	5	5	
Zinc	ppm	ASTM D5185m	0	10	16	
Sulfur	ppm	ASTM D5185m	23500	21473	24197	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	2	<1	
Sodium	ppm	ASTM D5185m		11	9	
Potassium	ppm	ASTM D5185m	>20	2	1	
Water	%	ASTM D6304	>0.05	0.009	0.011	
ppm Water	ppm	ASTM D6304	>500	91	114.2	
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647		511	1671	
Particles >6µm		ASTM D7647	>1300	150	390	
Particles >14μm		ASTM D7647	>80	9	19	
Particles >21µm		ASTM D7647	>20	2	4	
Particles >38µm		ASTM D7647	>4	0	0	
Particles >71µm		ASTM D7647	>3	0	0	
Oil Cleanliness		ISO 4406 (c)	>/17/13	16/14/10	18/16/11	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.32	0.30	



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No. Lab Number

: KCPA014440 : 06217288 Unique Number : 11090152

Received : 21 Jun 2024 **Tested** Diagnosed

: 25 Jun 2024 : 25 Jun 2024 - Don Baldridge

Test Package : IND 2 (Additional Tests: KF, PrtCount) 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. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

1851 E PARADICE RD TRACY, CA

US 95304 Contact: LOUIS louis@topshelftho.com

T:

F: Contact/Location: LOUIS ? - TOPTRA