

OIL ANALYSIS REPORT

Sample Rating Trend



WATER

WALLA

Machine Id **6953514 (S/N 1148)**

Component

Compressor

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

DIAGNOSIS

Recommendation

The filter change at the time of sampling has been noted. We advise that you stop the unit and follow the water drain-off procedure for this component. We recommend an early resample in 500 hours to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample.

Wear

All component wear rates are normal.

Contamination

Moderate concentration of visible dirt/debris present in the oil. There is a light concentration of water present in the oil.

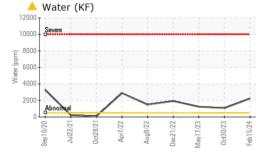
Fluid Condition

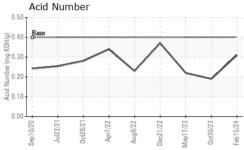
The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

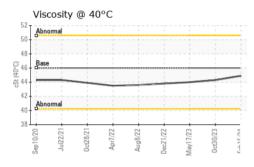
Sep2020 Juli021 Ocd021 App2022 Aug2022 Dec2022 May2023 Ocd023 Feb2024									
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		KC06122322	KC06007752	KC05869493			
Sample Date		Client Info		15 Feb 2024	30 Oct 2023	17 May 2023			
Machine Age	hrs	Client Info		24946	22793	20213			
Oil Age	hrs	Client Info		0	0	0			
Oil Changed		Client Info		N/A	N/A	N/A			
Sample Status				ABNORMAL	ABNORMAL	SEVERE			
WEAR METALS		method	limit/base	current	history1	history2			
Iron	ppm	ASTM D5185m	>50	0	1	2			
Chromium	ppm	ASTM D5185m	>10	0	0	0			
Nickel	ppm	ASTM D5185m	>3	0	0	0			
Titanium	ppm	ASTM D5185m	>3	0	<1	<1			
Silver	ppm	ASTM D5185m	>2	0	0	0			
Aluminum	ppm	ASTM D5185m	>10	0	0	<1			
Lead	ppm	ASTM D5185m	>10	0	0	0			
Copper	ppm	ASTM D5185m	>50	8	13	6			
Tin	ppm	ASTM D5185m	>10	<1	0	0			
Vanadium	ppm	ASTM D5185m		0	<1	0			
Cadmium	ppm	ASTM D5185m		0	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		0	0	0			
Manganese	ppm	ASTM D5185m		<1	0	<1			
Magnesium	ppm	ASTM D5185m	90	3	0	11			
Calcium	ppm	ASTM D5185m	2	0	0	0			
Phosphorus	ppm	ASTM D5185m		0	0	0			
Zinc	ppm	ASTM D5185m		15	0	22			
CONTAMINANTS	1	method	limit/base	current	history1	history2			
Silicon	ppm	ASTM D5185m	>25	0	0	0			
Sodium	ppm	ASTM D5185m		2	<1	1			
Potassium	ppm	ASTM D5185m	>20	0	0	<1			
Water	%	ASTM D6304	>0.05	△ 0.224	▲ 0.107	<u>^</u> 0.125			
ppm Water	ppm	ASTM D6304	>500	2240	△ 1070	<u>▲</u> 1250			
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2			
Particles >4µm		ASTM D7647			285365	948			
Particles >6µm		ASTM D7647	>1300		220697	517			
Particles >14µm		ASTM D7647	>80		▲ 38193	88			
Particles >21µm		ASTM D7647	>20		4517	3 0			
Particles >38μm		ASTM D7647	>4		▲ 36	5			
Particles >71µm		ASTM D7647	>3		<u>4</u>	0			
Oil Cleanliness		ISO 4406 (c)	>/17/13		▲ 25/25/22	17/16/14			
FLUID DEGRADA	TION	method	limit/base	current	history1	history2			
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	0.31	0.19	0.22			

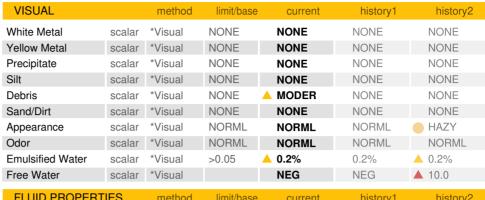


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FLUID PROPERTIES		method	iimit/base	current	nistory i	nistory2
Visc @ 40°C	cSt	ASTM D445	46	44.9	44.3	44.0

method

limit/base

current

history1

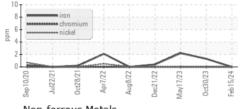
history2

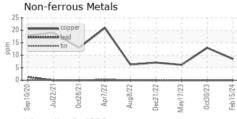
Color

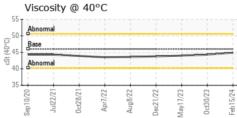
Bottom

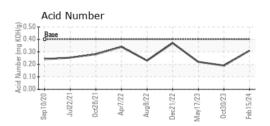
GRAPHS

Ferrous Alloys













Certificate L2367

Laboratory Sample No.

Test Package : IND 2

: KC06122322 Lab Number : 06122322 **Unique Number** : 10936473

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

Diagnosed

: 19 Mar 2024 : 21 Mar 2024

: 21 Mar 2024 - Don Baldridge

CITY OF ASHVILLE WATER TREATMENT 3374 N FORK LEFT RD BLACK MOUNTAIN, NC

US 28711

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)

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