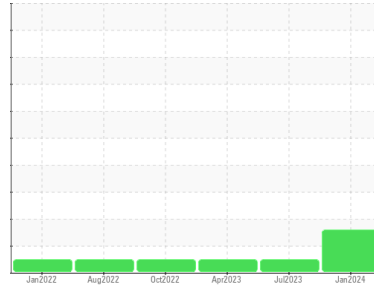




OIL ANALYSIS REPORT

Sample Rating Trend



DIRT



Machine Id
7613862 - AC47 (S/N 1045)

Component
Compressor

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

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Elemental level of silicon (Si) above normal. The amount and size of particulates present in the system are acceptable.

Fluid Condition

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

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			KC06076847	KC106329	KC94677
Sample Date	Client Info			08 Jan 2024	06 Jul 2023	03 Apr 2023
Machine Age	hrs	Client Info		18130	7883	7317
Oil Age	hrs	Client Info		0	3853	3287
Oil Changed	Client Info			N/A	Not Changd	Not Changd
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	0	0	0
Nickel	ppm	ASTM D5185m	>3	0	0	0
Titanium	ppm	ASTM D5185m	>3	<1	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>10	0	<1	<1
Lead	ppm	ASTM D5185m	>10	<1	0	0
Copper	ppm	ASTM D5185m	>50	9	7	7
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	11
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m	90	6	19	40
Calcium	ppm	ASTM D5185m	2	0	0	<1
Phosphorus	ppm	ASTM D5185m		0	<1	1
Zinc	ppm	ASTM D5185m		0	0	6

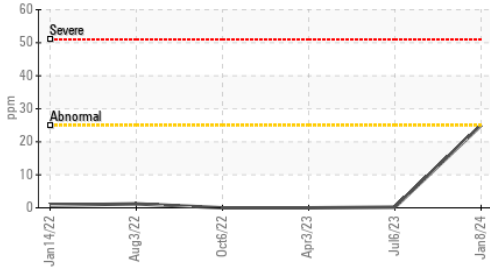
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	▲ 25	<1	0
Sodium	ppm	ASTM D5185m		4	10	16
Potassium	ppm	ASTM D5185m	>20	1	8	6
Water	%	ASTM D6304	>0.05	0.005	0.013	0.019
ppm Water	ppm	ASTM D6304	>500	50	139.8	195.4

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		1354	534	1114
Particles >6µm		ASTM D7647	>1300	544	138	294
Particles >14µm		ASTM D7647	>80	47	9	26
Particles >21µm		ASTM D7647	>20	14	3	7
Particles >38µm		ASTM D7647	>4	1	0	1
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>--/17/13	18/16/13	16/14/10	17/15/12

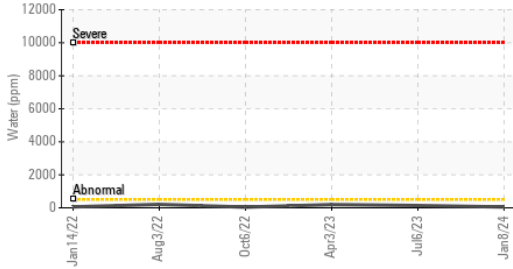
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	0.40	0.38	0.14

OIL ANALYSIS REPORT

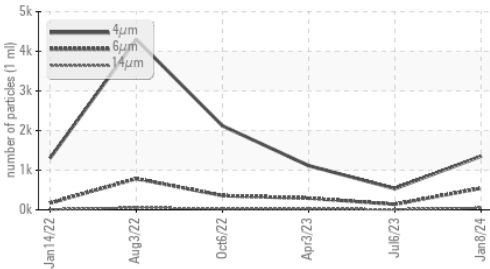
▲ Silicon (ppm)



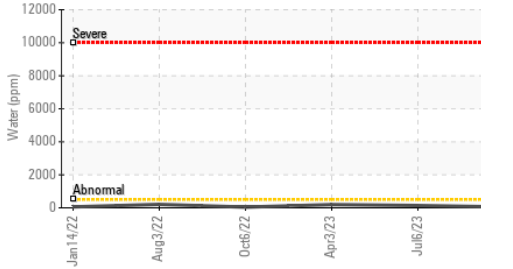
Water (KF)



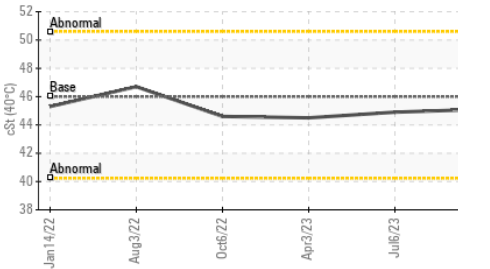
Particle Trend



Water (KF)



Viscosity @ 40°C

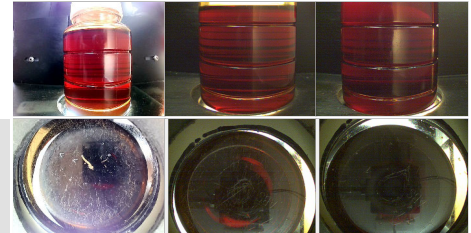


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	45.1	44.9

SAMPLE IMAGES	method	limit/base	current	history1	history2
---------------	--------	------------	---------	----------	----------

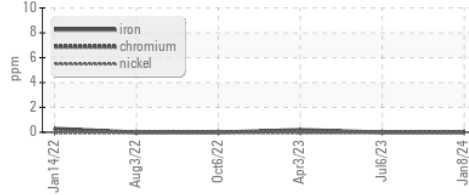
Color



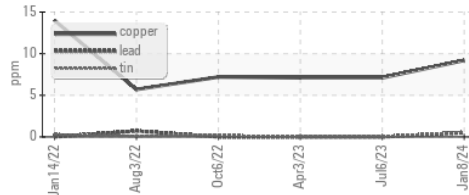
Bottom

GRAPHS

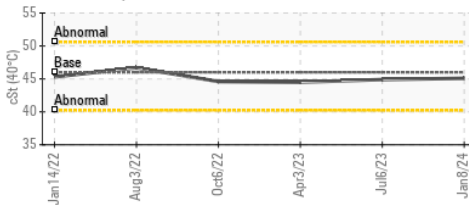
Ferrous Alloys



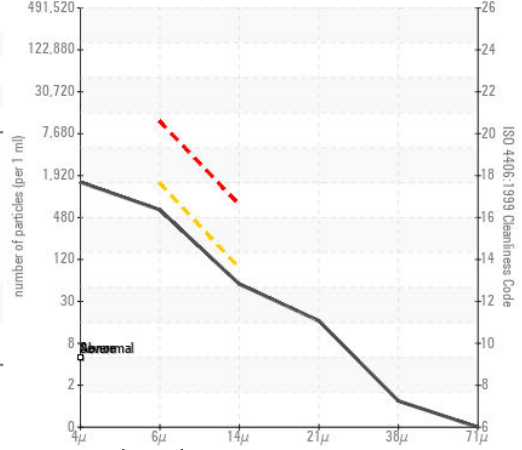
Non-ferrous Metals



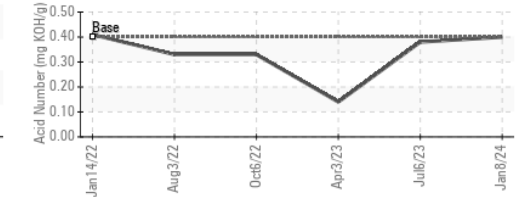
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KC06076847
Lab Number : 06076847
Unique Number : 10858938
Test Package : IND 2

Received : 01 Feb 2024
Diagnosed : 02 Feb 2024
Diagnostician : Don Baldrige

WEATHER TECH DIRECT LLC
 4 WEATHERTECH WAY
 BOLINGBROOK, IL
 US 60440
 Contact: R. HAYS
 rhays@weathertech.com

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)

T:
F: