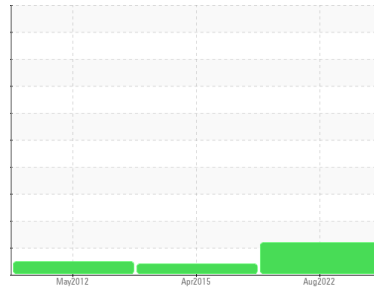


PROBLEM SUMMARY

Sample Rating Trend



ISO



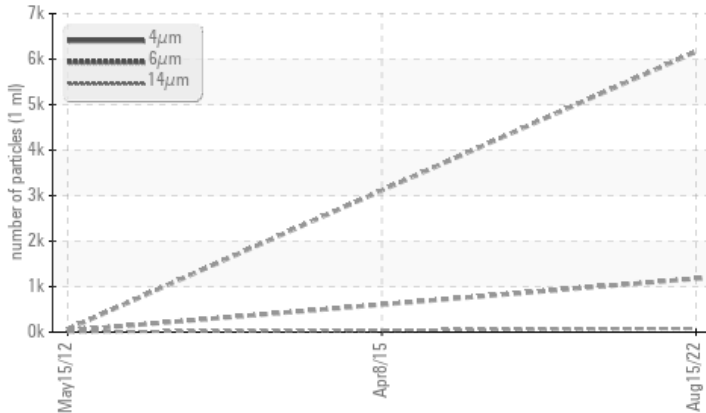
Machine Id
KAESER SFC 110ST 4009218 (S/N 1018)

Component
Compressor

Fluid
KAESER SIGMA (OEM) M-460 (--- QTS)

COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status			ATTENTION	ABNORMAL	NORMAL
Particles >14µm	ASTM D7647	>80	▲ 81	---	5
Particles >21µm	ASTM D7647	>20	▲ 30	---	2
Oil Cleanliness	ISO 4406 (c)	>--/17/13	▲ 20/17/14	---	12/10

Customer Id: AXYUNI
Sample No.: KCP48365
Lab Number: 05628366
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
Angela Borella +1 800-237-1369
angela.borella@wearcheckusa.com

To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Fluid	---	---	?	Oil and filter change at the time of sampling has been noted.
Change Filter	---	---	?	Oil and filter change at the time of sampling has been noted.

HISTORICAL DIAGNOSIS

08 Apr 2015 Diag: Doug Bogart

VIS DEBRIS



The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

[view report](#)



15 May 2012 Diag: Jonathan Hester

NORMAL



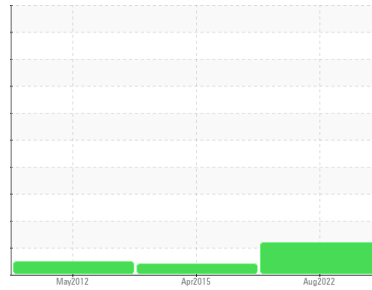
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the component. The amount and size of particulates present in the system is acceptable. The condition of oil is suitable for further service.

[view report](#)



OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id
KAESER SFC 110ST 4009218 (S/N 1018)

Component
Compressor

Fluid
KAESER SIGMA (OEM) M-460 (--- QTS)

DIAGNOSIS

▲ Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

▲ Contamination

There is a moderate 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.

SAMPLE INFORMATION

	method	limit/base	current	history 1	history 2
Sample Number			KCP48365	KC48811	KC20069
Sample Date			15 Aug 2022	08 Apr 2015	15 May 2012
Machine Age	hrs		34154	18860	5385
Oil Age	hrs		3000	0	5384
Oil Changed			Changed	Changed	N/A
Sample Status			ATTENTION	ABNORMAL	NORMAL

WEAR METALS

	method	limit/base	current	history 1	history 2
Iron	ppm ASTM D5185m	>50	0	<1	<1
Chromium	ppm ASTM D5185m	>10	0	0	0
Nickel	ppm ASTM D5185m	>3	<1	<1	0
Titanium	ppm ASTM D5185m	>3	0	0	0
Silver	ppm ASTM D5185m	>2	1	0	0
Aluminum	ppm ASTM D5185m	>10	2	0	<1
Lead	ppm ASTM D5185m	>10	0	0	<1
Copper	ppm ASTM D5185m	>50	8	7	10
Tin	ppm ASTM D5185m	>10	1	0	0
Antimony	ppm ASTM D5185m		---	<1	0
Vanadium	ppm ASTM D5185m		0	0	0
Cadmium	ppm ASTM D5185m		0	0	0

ADDITIVES

	method	limit/base	current	history 1	history 2
Boron	ppm ASTM D5185m	0	<1	0	0
Barium	ppm ASTM D5185m	90	0	0	0
Molybdenum	ppm ASTM D5185m	0	0	<1	0
Manganese	ppm ASTM D5185m		0	0	0
Magnesium	ppm ASTM D5185m	100	0	<1	0
Calcium	ppm ASTM D5185m	0	0	0	0
Phosphorus	ppm ASTM D5185m	0	<1	3	1
Zinc	ppm ASTM D5185m	0	0	1	24
Sulfur	ppm ASTM D5185m	23500	10391	17210	17977

CONTAMINANTS

	method	limit/base	current	history 1	history 2
Silicon	ppm ASTM D5185m	>25	1	<1	0
Sodium	ppm ASTM D5185m		0	0	<1
Potassium	ppm ASTM D5185m	>20	0	0	6
Water	% ASTM D6304	>0.05	0.003	0.007	0.004
ppm Water	ppm ASTM D6304	>500	27.5	70	40

FLUID CLEANLINESS

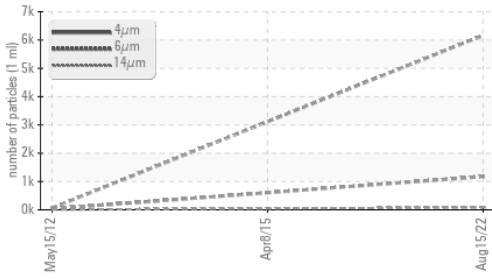
	method	limit/base	current	history 1	history 2
Particles >4µm	ASTM D7647		6165	---	64
Particles >6µm	ASTM D7647	>1300	1177	---	34
Particles >14µm	ASTM D7647	>80	▲ 81	---	5
Particles >21µm	ASTM D7647	>20	▲ 30	---	2
Particles >38µm	ASTM D7647	>4	2	---	0
Particles >71µm	ASTM D7647	>3	0	---	0
Oil Cleanliness	ISO 4406 (c)	>--/17/13	▲ 20/17/14	---	12/10

FLUID DEGRADATION

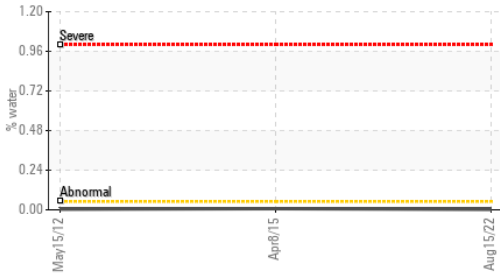
	method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g ASTM D8045	1.0	0.45	0.353	0.429

OIL ANALYSIS REPORT

▲ Particle Trend



Water



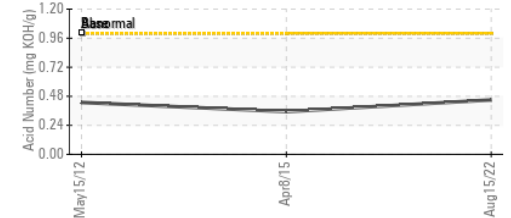
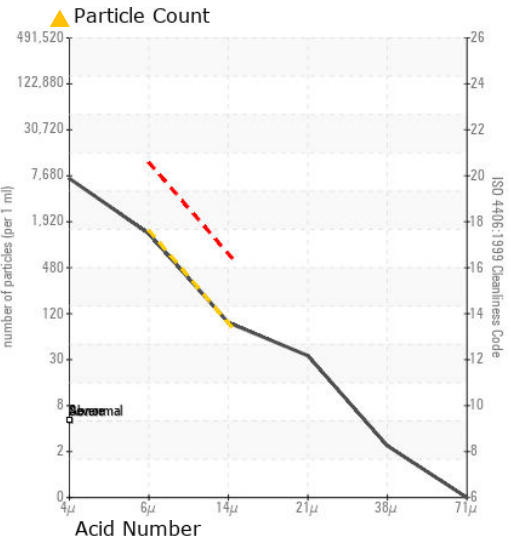
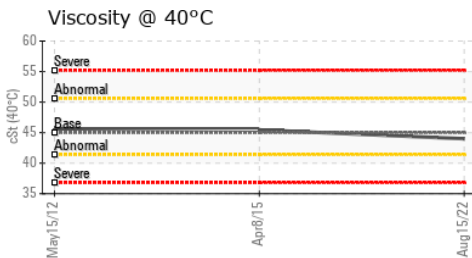
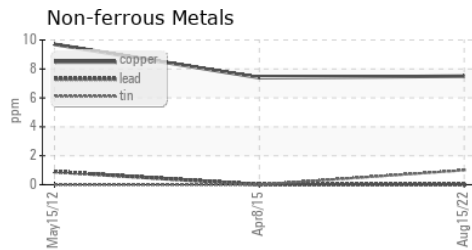
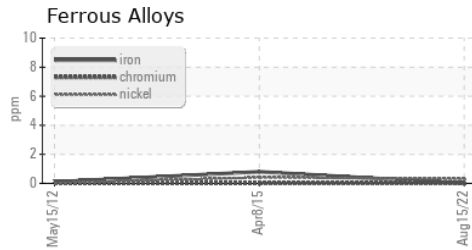
PARAMETER	method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	history 1	history 2	
Visc @ 40°C	cSt	ASTM D445	45	44.0	45.45	45.64

SAMPLE IMAGES	method	limit/base	current	history 1	history 2
---------------	--------	------------	---------	-----------	-----------

Color				no image	no image
Bottom				no image	no image

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCP48365 **Received** : 26 Aug 2022
Lab Number : 05628366 **Diagnosed** : 30 Aug 2022
Unique Number : 10112887 **Diagnostician** : Angela Borella
Test Package : IND 2 (Additional Tests: KF, PrtCount)

AXYGEN SCIENTIFIC INC - WESTERN ALLIED MECH
 33210 CENTRAL AVE
 UNION CITY, CA
 USA 94587
 Contact:

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: