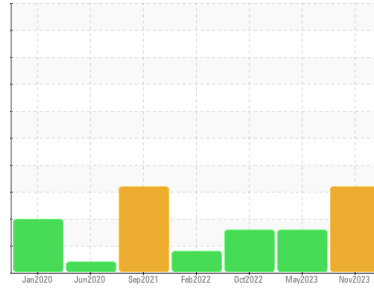


PROBLEM SUMMARY

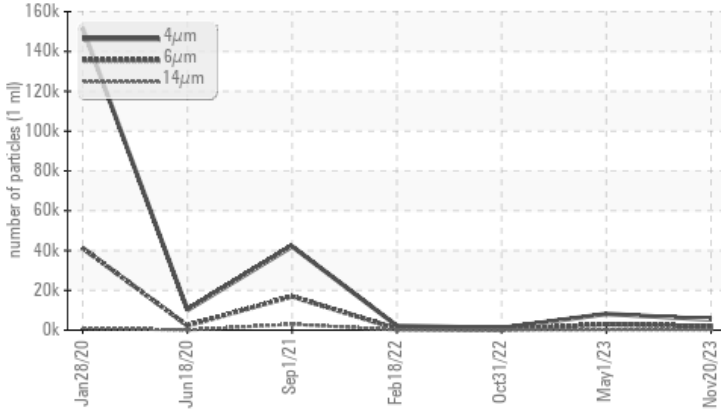
Sample Rating Trend



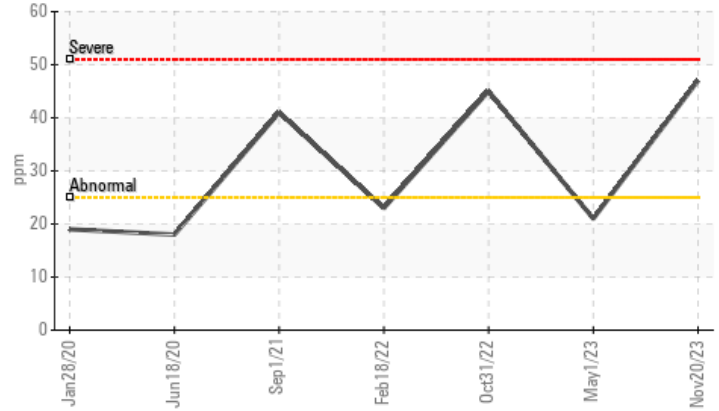
Machine Id
6981332 (S/N 1361)
Component
Compressor
Fluid
KAESER SIGMA (OEM) S-460 (--- GAL)

COMPONENT CONDITION SUMMARY

▲ Particle Trend



▲ Silicon (ppm)



RECOMMENDATION

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

PROBLEMATIC TEST RESULTS

Sample Status			ABNORMAL	ABNORMAL	ABNORMAL
Silicon	ppm	ASTM D5185m >25	▲ 47	21	▲ 45
Particles >6µm		ASTM D7647 >1300	▲ 1957	▲ 2985	270
Particles >14µm		ASTM D7647 >80	▲ 237	▲ 224	26
Particles >21µm		ASTM D7647 >20	▲ 62	▲ 26	10
Oil Cleanliness		ISO 4406 (c) >--/17/13	▲ 20/18/15	▲ 20/19/15	17/15/12

Customer Id: POLSOU
Sample No.: KC125922
Lab Number: 06017391
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
Jonathan Hester +1 919-379-4092 x4092
jhester@wearcheckusa.com

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

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

01 May 2023 Diag: Don Baldrige

ISO



No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



31 Oct 2022 Diag: Don Baldrige

DIRT



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. All component wear rates are normal. Elemental level of silicon (Si) above normal. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



18 Feb 2022 Diag: Jonathan Hester

ISO



No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

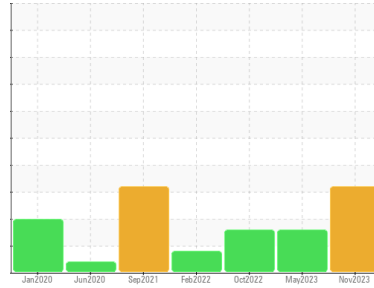
view report





OIL ANALYSIS REPORT

Sample Rating Trend



DIRT



Machine Id
6981332 (S/N 1361)

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

DIAGNOSIS

▲ Recommendation

The 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 high amount of particulates present in the oil. Elemental level of silicon (Si) above normal indicating ingress of seal material.

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			KC125922	KC101832	KC102901
Sample Date	Client Info			20 Nov 2023	01 May 2023	31 Oct 2022
Machine Age	hrs	Client Info		31125	26994	23017
Oil Age	hrs	Client Info		0	3900	9500
Oil Changed	Client Info			N/A	Not Changd	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	<1	<1
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>3	0	0	0
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>10	0	0	0
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>50	13	9	23
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	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	47	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	90	18	60	13
Calcium	ppm	ASTM D5185m	2	0	2	0
Phosphorus	ppm	ASTM D5185m		0	4	7
Zinc	ppm	ASTM D5185m		20	16	40

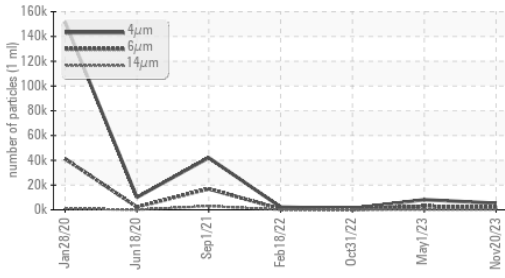
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	▲ 47	21	▲ 45
Sodium	ppm	ASTM D5185m		10	18	2
Potassium	ppm	ASTM D5185m	>20	1	6	2
Water	%	ASTM D6304	>0.05	0.018	0.019	0.014
ppm Water	ppm	ASTM D6304	>500	183	191.0	147.3

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		5348	8160	1034
Particles >6µm		ASTM D7647	>1300	▲ 1957	▲ 2985	270
Particles >14µm		ASTM D7647	>80	▲ 237	▲ 224	26
Particles >21µm		ASTM D7647	>20	▲ 62	▲ 26	10
Particles >38µm		ASTM D7647	>4	1	1	1
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>--/17/13	▲ 20/18/15	▲ 20/19/15	17/15/12

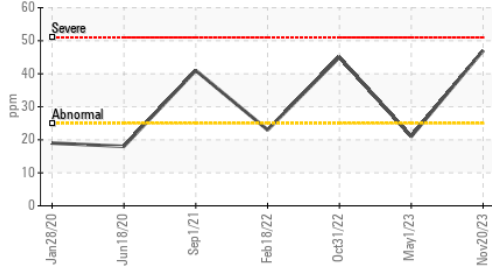
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	0.30	0.31	0.30

OIL ANALYSIS REPORT

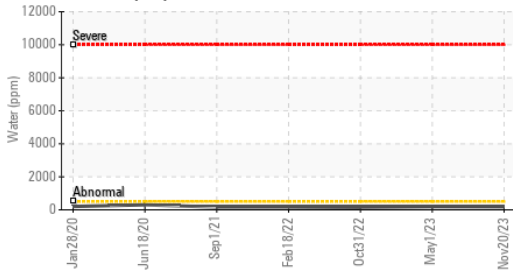
▲ Particle Trend



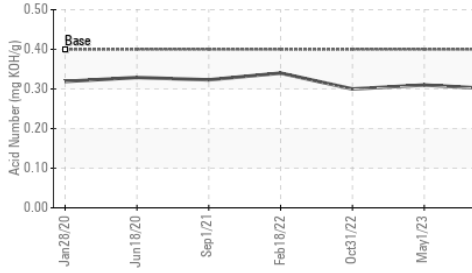
▲ Silicon (ppm)



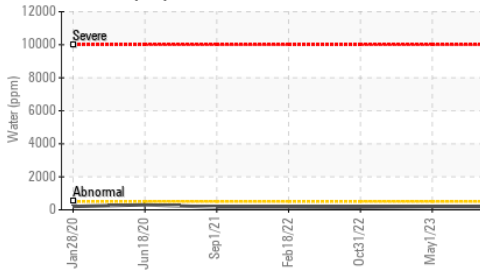
▲ Water (KF)



▲ Acid Number



▲ Water (KF)

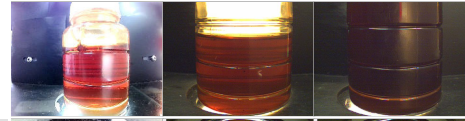


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	44.2	44.4

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color

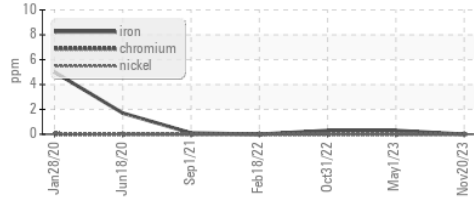


Bottom

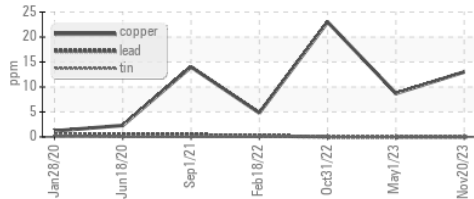


GRAPHS

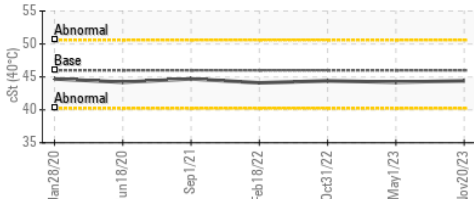
Ferrous Alloys



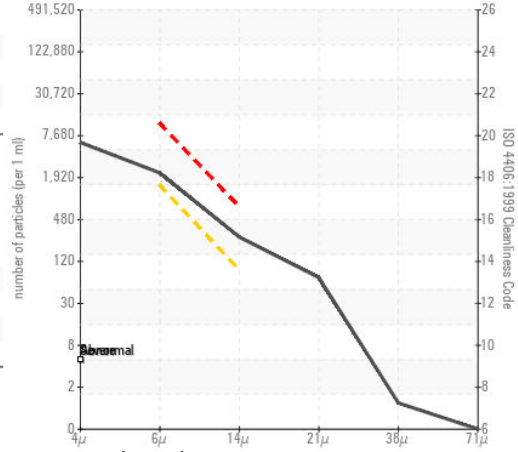
Non-ferrous Metals



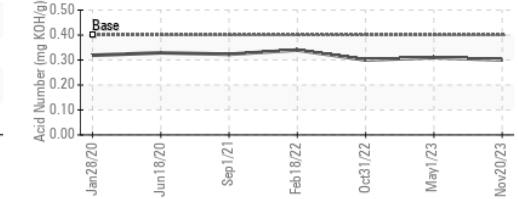
Viscosity @ 40°C



▲ Particle Count



▲ Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KC125922 **Received** : 24 Nov 2023
Lab Number : 06017391 **Diagnosed** : 29 Nov 2023
Unique Number : 10756535 **Diagnostician** : Jonathan Hester
Test Package : IND 2

POLYMER DYNAMIX LLC
 1000 COOLIDGE ST
 SOUTH PLAINFIELD, NJ
 US 07080
 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)

T:
F: