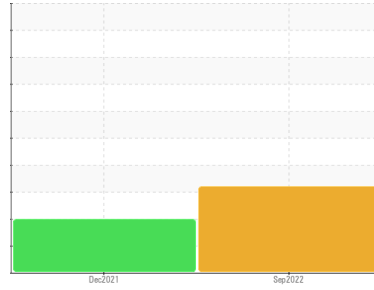


PROBLEM SUMMARY

Sample Rating Trend

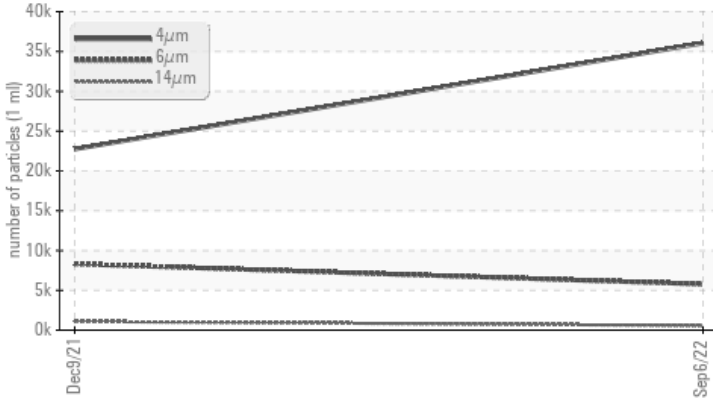


Machine Id
2067247 (S/N 1588)

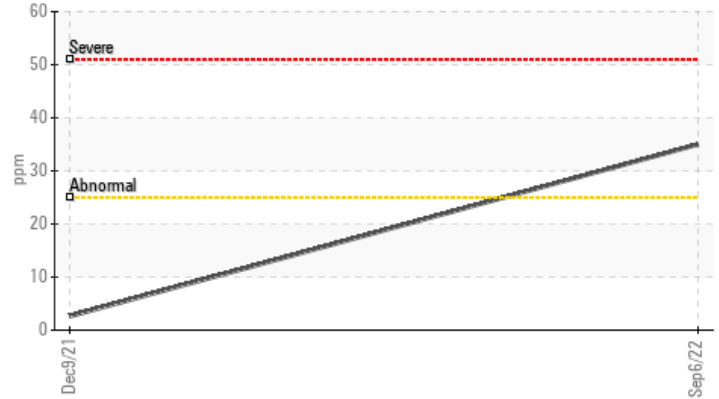
Component
Compressor
Fluid
KAESER SIGMA (OEM) M-460 (--- GAL)

COMPONENT CONDITION SUMMARY

▲ Particle Trend



▲ Silicon (ppm)



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				ABNORMAL	ABNORMAL	---
Silicon	ppm	ASTM D5185m	>25	▲ 35	3	---
Particles >6µm		ASTM D7647	>1300	▲ 5776	▲ 8309	---
Particles >14µm		ASTM D7647	>80	▲ 565	▲ 1092	---
Particles >21µm		ASTM D7647	>20	▲ 144	▲ 235	---
Oil Cleanliness		ISO 4406 (c)	>--/17/13	▲ 22/20/16	▲ 20/17	---

Customer Id: FERTRA
Sample No.: KCP30987
Lab Number: 05639099
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

09 Dec 2021 Diag: Angela Borella

ISO



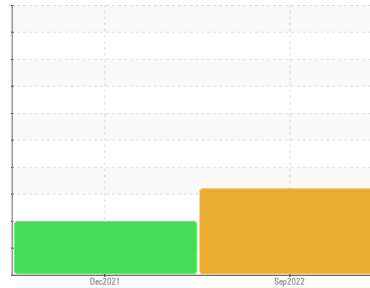
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. Moderate concentration of visible dirt/debris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

view report



OIL ANALYSIS REPORT

Sample Rating Trend



DIRT



Machine Id
2067247 (S/N 1588)

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

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

Fluid Condition

The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history 1	history 2
Sample Number			KCP30987	KCP43220	---
Sample Date			06 Sep 2022	09 Dec 2021	---
Machine Age	hrs		0	93860	---
Oil Age	hrs		0	1757	---
Oil Changed			Changed	Changed	---
Sample Status			ABNORMAL	ABNORMAL	---

WEAR METALS

	method	limit/base	current	history 1	history 2
Iron	ppm ASTM D5185m	>50	1	<1	---
Chromium	ppm ASTM D5185m	>10	0	0	---
Nickel	ppm ASTM D5185m	>3	0	0	---
Titanium	ppm ASTM D5185m	>3	0	0	---
Silver	ppm ASTM D5185m	>2	0	0	---
Aluminum	ppm ASTM D5185m	>10	<1	1	---
Lead	ppm ASTM D5185m	>10	0	0	---
Copper	ppm ASTM D5185m	>50	4	6	---
Tin	ppm ASTM D5185m	>10	0	0	---
Antimony	ppm ASTM D5185m		---	0	---
Vanadium	ppm ASTM D5185m		0	0	---
Cadmium	ppm ASTM D5185m		0	0	---

ADDITIVES

	method	limit/base	current	history 1	history 2
Boron	ppm ASTM D5185m	0	0	1	---
Barium	ppm ASTM D5185m	90	11	0	---
Molybdenum	ppm ASTM D5185m	0	0	0	---
Manganese	ppm ASTM D5185m		0	0	---
Magnesium	ppm ASTM D5185m	100	12	0	---
Calcium	ppm ASTM D5185m	0	<1	0	---
Phosphorus	ppm ASTM D5185m	0	4	5	---
Zinc	ppm ASTM D5185m	0	6	0	---
Sulfur	ppm ASTM D5185m	23500	17264	16630	---

CONTAMINANTS

	method	limit/base	current	history 1	history 2
Silicon	ppm ASTM D5185m	>25	▲ 35	3	---
Sodium	ppm ASTM D5185m		1	0	---
Potassium	ppm ASTM D5185m	>20	0	0	---
Water	% ASTM D6304	>0.05	0.005	0.006	---
ppm Water	ppm ASTM D6304	>500	50.3	63.4	---

FLUID CLEANLINESS

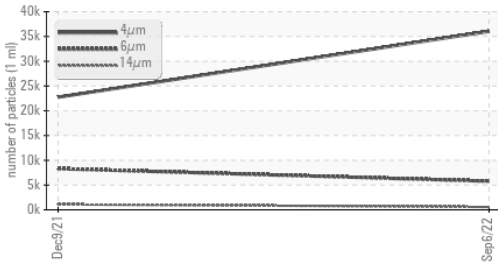
	method	limit/base	current	history 1	history 2
Particles >4µm	ASTM D7647		36046	22740	---
Particles >6µm	ASTM D7647	>1300	▲ 5776	▲ 8309	---
Particles >14µm	ASTM D7647	>80	▲ 565	▲ 1092	---
Particles >21µm	ASTM D7647	>20	▲ 144	▲ 235	---
Particles >38µm	ASTM D7647	>4	1	▲ 16	---
Particles >71µm	ASTM D7647	>3	0	0	---
Oil Cleanliness	ISO 4406 (c)	>--/17/13	▲ 22/20/16	▲ 20/17	---

FLUID DEGRADATION

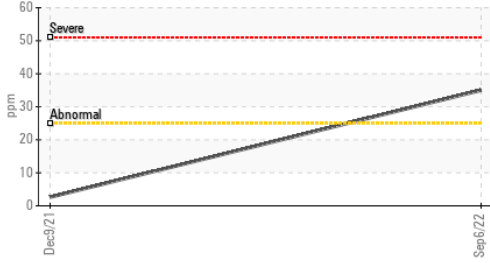
	method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g ASTM D8045	1.0	0.40	0.443	---

OIL ANALYSIS REPORT

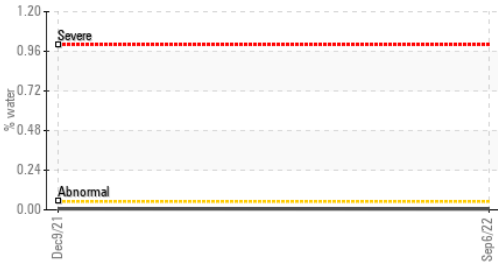
▲ Particle Trend



▲ Silicon (ppm)



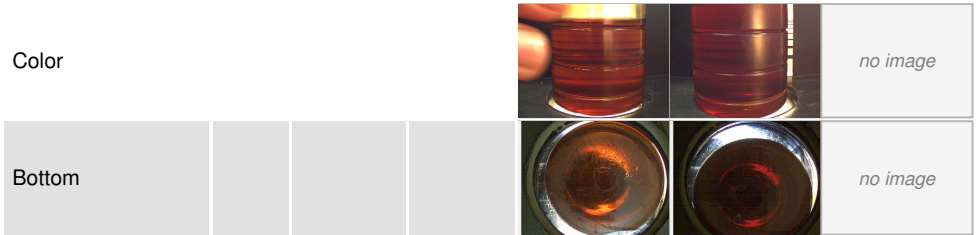
Water



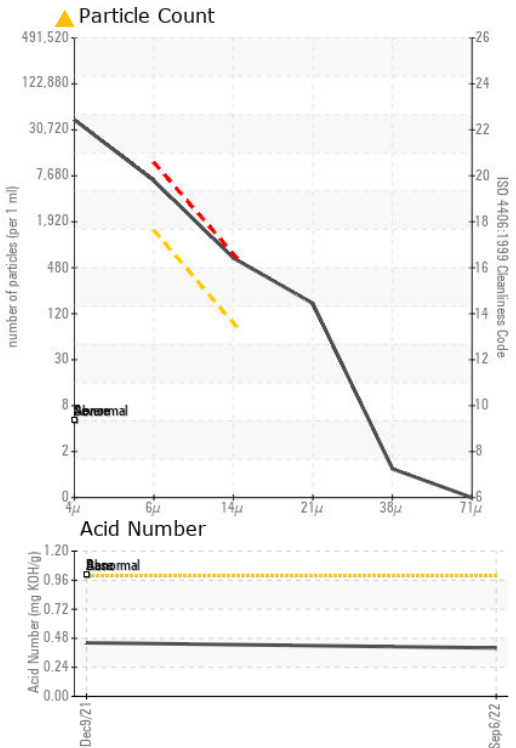
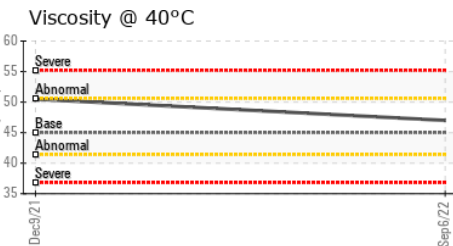
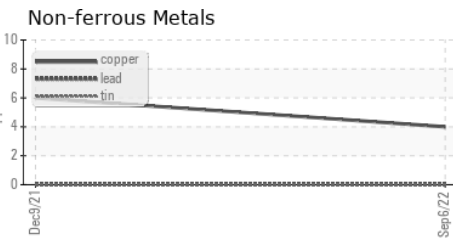
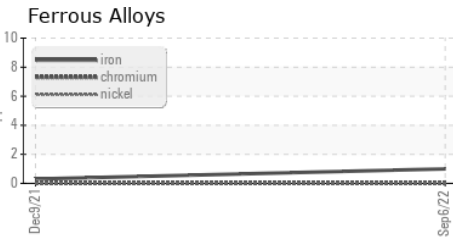
VISUAL	method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	LIGHT	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.05	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	45	47.0	50.5

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



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCP30987 **Received** : 12 Sep 2022
Lab Number : 05639099 **Diagnosed** : 14 Sep 2022
Unique Number : 10128629 **Diagnostician** : Angela Borella
Test Package : IND 2 (Additional Tests: KF, PrtCount)

FERAL PRODUCTIONS LLC
 1935 N MACARTHUR DR
 TRACY, CA
 USA 95376
 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: