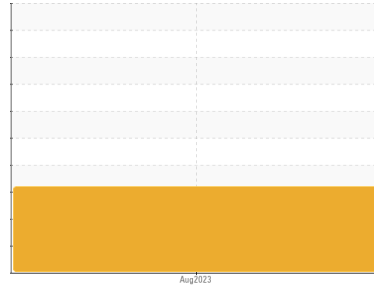


PROBLEM SUMMARY

Sample Rating Trend

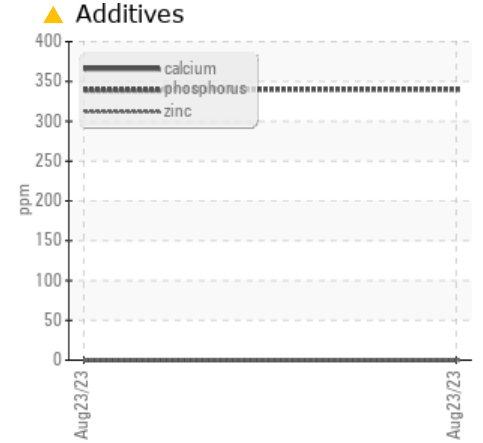
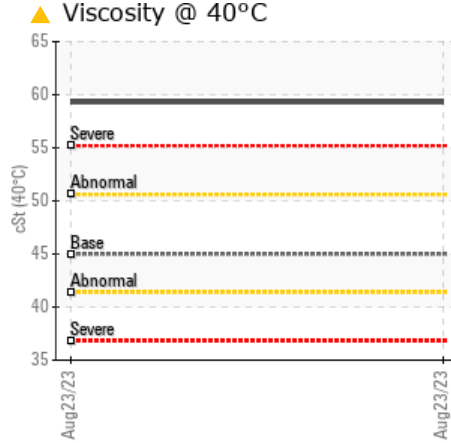
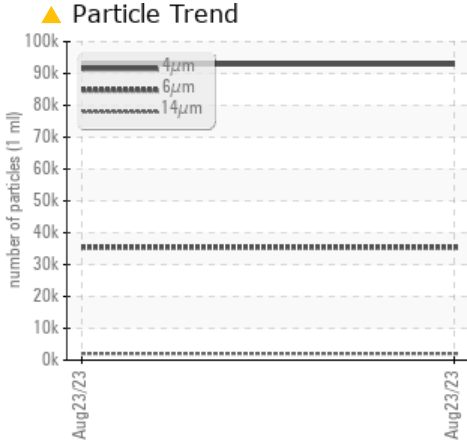


VISCOSITY



Machine Id
2002
Component
Compressor
Fluid
KAESER SIGMA (OEM) M-460 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

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.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	---	---
Phosphorus	ppm	ASTM D5185m	0	▲ 340	---	---
Sulfur	ppm	ASTM D5185m	23500	▲ 6019	---	---
Particles >6µm		ASTM D7647	>1300	▲ 35428	---	---
Particles >14µm		ASTM D7647	>80	▲ 2061	---	---
Particles >21µm		ASTM D7647	>20	▲ 382	---	---
Particles >38µm		ASTM D7647	>4	▲ 13	---	---
Oil Cleanliness		ISO 4406 (c)	>--/17/13	▲ 24/22/18	---	---
Visc @ 40°C	cSt	ASTM D445	45	▲ 59.3	---	---

Customer Id: GALMILCA
Sample No.: KCPA002920
Lab Number: 05936698
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
Doug Bogart +1 (800)237-1369 x4016
dougb@wearcheckusa.com

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

RECOMMENDED ACTIONS

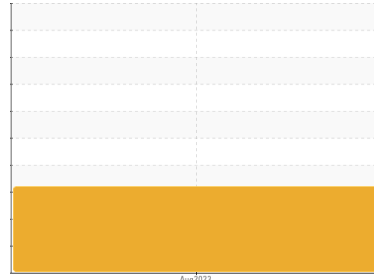
There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



Machine Id

2002

Component

Compressor

Fluid

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

DIAGNOSIS

▲ Recommendation

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.

Wear

All component wear rates are normal.

▲ Contamination

There is a high amount of particulates present in the oil.

▲ Fluid Condition

The oil viscosity is higher than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type. The AN level is acceptable for this fluid.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	KCPA002920	---	---
Sample Date	Client Info	23 Aug 2023	---	---
Machine Age	hrs	Client Info	7024	---
Oil Age	hrs	Client Info	0	---
Oil Changed	Client Info	N/A	---	---
Sample Status		ABNORMAL	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<1	---
Chromium	ppm	ASTM D5185m >10	0	---
Nickel	ppm	ASTM D5185m >3	0	---
Titanium	ppm	ASTM D5185m >3	0	---
Silver	ppm	ASTM D5185m >2	0	---
Aluminum	ppm	ASTM D5185m >10	<1	---
Lead	ppm	ASTM D5185m >10	0	---
Copper	ppm	ASTM D5185m >50	15	---
Tin	ppm	ASTM D5185m >10	0	---
Vanadium	ppm	ASTM D5185m	0	---
Cadmium	ppm	ASTM D5185m	0	---

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	0	---
Barium	ppm	ASTM D5185m 90	0	---
Molybdenum	ppm	ASTM D5185m 0	0	---
Manganese	ppm	ASTM D5185m	<1	---
Magnesium	ppm	ASTM D5185m 100	0	---
Calcium	ppm	ASTM D5185m 0	0	---
Phosphorus	ppm	ASTM D5185m 0	▲ 340	---
Zinc	ppm	ASTM D5185m 0	0	---
Sulfur	ppm	ASTM D5185m 23500	▲ 6019	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	1	---
Sodium	ppm	ASTM D5185m	0	---
Potassium	ppm	ASTM D5185m >20	0	---
Water	%	ASTM D6304 >0.05	0.001	---
ppm Water	ppm	ASTM D6304 >500	6.6	---

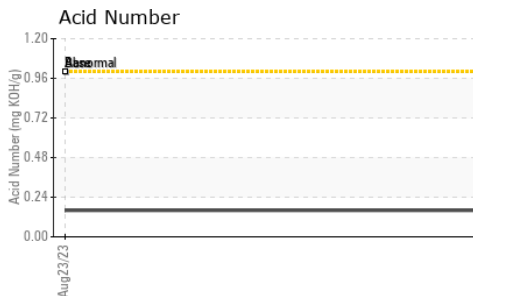
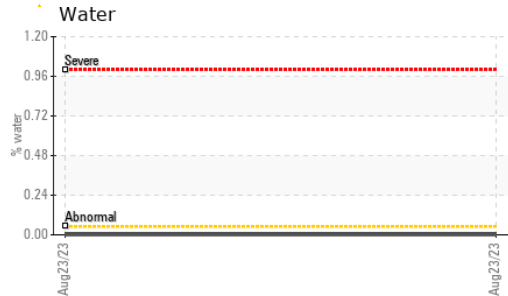
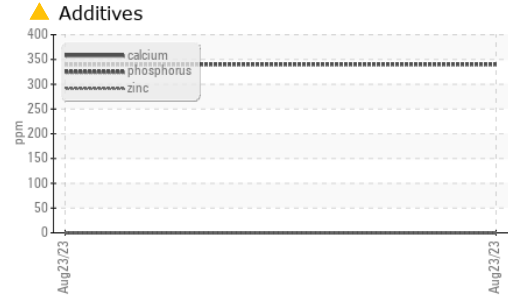
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	92876	---	---
Particles >6µm	ASTM D7647 >1300	▲ 35428	---	---
Particles >14µm	ASTM D7647 >80	▲ 2061	---	---
Particles >21µm	ASTM D7647 >20	▲ 382	---	---
Particles >38µm	ASTM D7647 >4	▲ 13	---	---
Particles >71µm	ASTM D7647 >3	1	---	---
Oil Cleanliness	ISO 4406 (c) >--/17/13	▲ 24/22/18	---	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 1.0	0.16	---

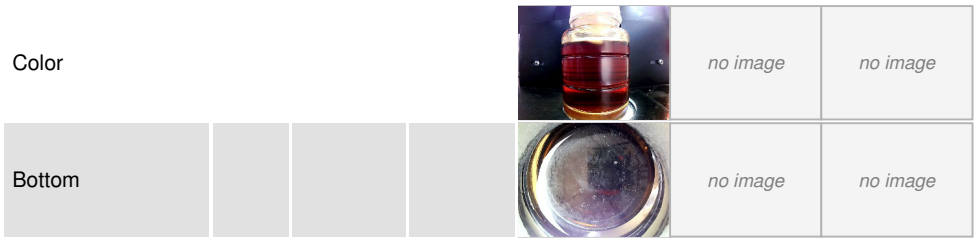
OIL ANALYSIS REPORT



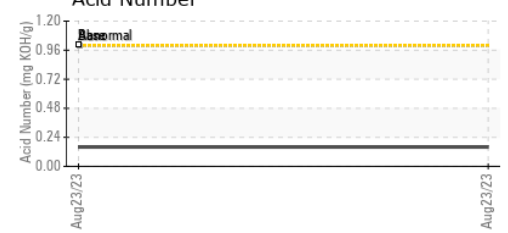
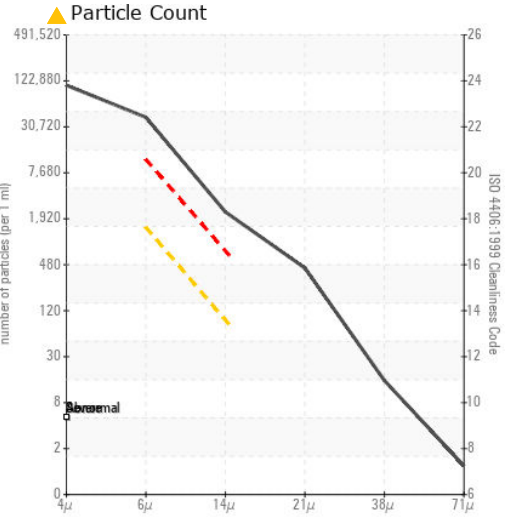
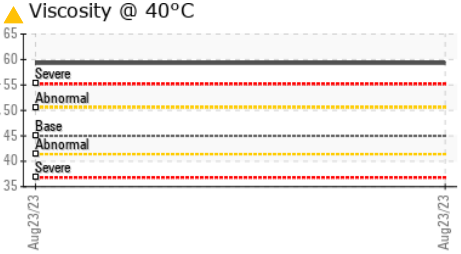
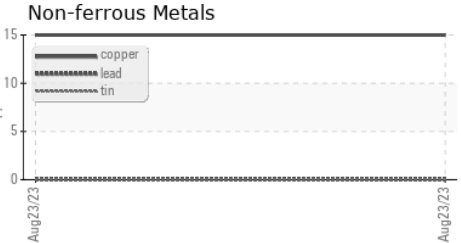
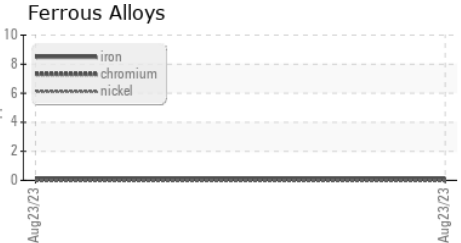
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*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	history1	history2
Visc @ 40°C	cSt	ASTM D445	45	▲ 59.3	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCPA002920 **Received** : 28 Aug 2023
Lab Number : 05936698 **Diagnosed** : 04 Sep 2023
Unique Number : 10621969 **Diagnostician** : Doug Bogart
Test Package : IND 2 (Additional Tests: KF, PrtCount)

GALAXY THERAPEUTICS INC
 799 AMES AVE
 MILPITAS, CA
 US 95035
 Contact: JT
 jt@galaxytherapeutics.com
 T:
 F:

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)