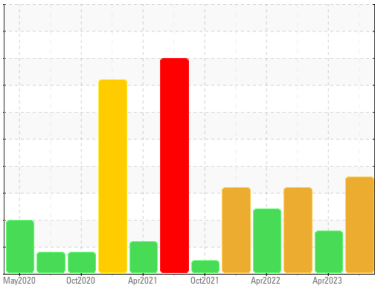
OIL DIAGNOSTICS

PROBLEM SUMMARY

Sample Rating Trend

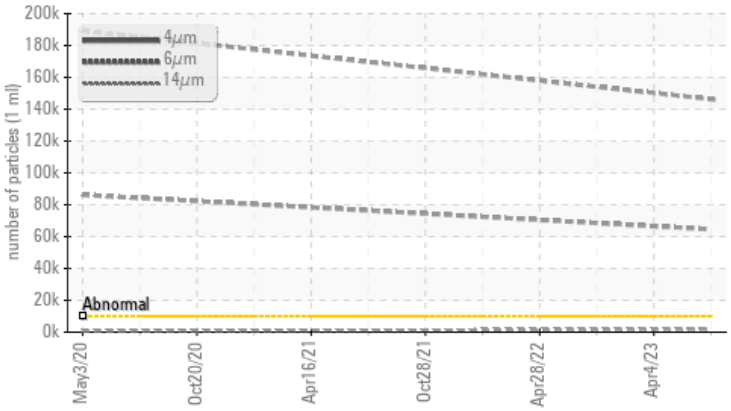


DIRT

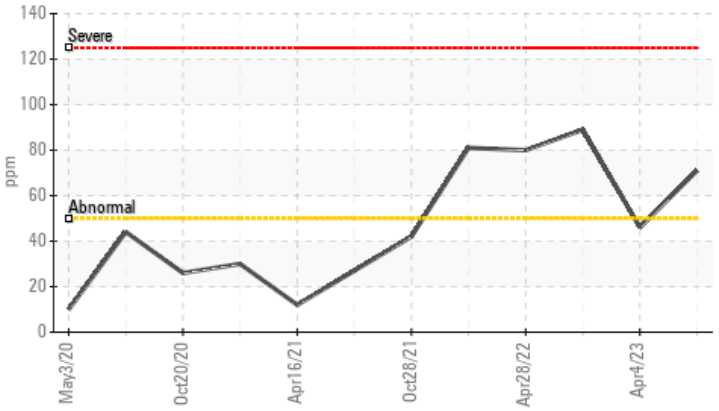
Area
[98348012]
Machine Id
KR-HA-005549 - TRIMMER 2 SMALL (S/N HAM PACK - 10193004)
Component
Gear Reducer
Fluid
SCHAEFFER 294 SUPREME GEAR LUBE ISO 460 (--- GAL)

COMPONENT CONDITION SUMMARY

Particle Trend



Silicon (ppm)



RECOMMENDATION

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. Particle count performed inadvertently.

PROBLEMATIC TEST RESULTS

Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL
Silicon	ppm	ASTM D5185m	>50	▲ **71**	46	▲ 89
Particles >4µm		ASTM D7647	>10000	▲ **146238**	---	---
Particles >6µm		ASTM D7647	>2500	▲ **64531**	---	---
Particles >14µm		ASTM D7647	>640	▲ **1800**	---	---
Particles >21µm		ASTM D7647	>160	▲ **215**	---	---
Oil Cleanliness		ISO 4406 (c)	>20/18/16	▲ **24/23/18**	---	---

Customer Id: KRAKIR
Sample No.: PCA0101716
Lab Number: 05894967
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

Action	Status	Date	Done By	Description
Change Filter	---	---	?	We recommend you service the filters on this component if applicable.

HISTORICAL DIAGNOSIS

04 Apr 2023 Diag: Jonathan Hester

WEAR

No corrective action is recommended at this time. Resample at the next service interval to monitor.Bearing and/or bushing wear is indicated. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

view report

02 Aug 2022 Diag: Jonathan Hester

DIRT

No corrective action is recommended at this time. Resample at the next service interval to monitor.Bearing and/or bushing wear is indicated. Elemental level of silicon (Si) above normal indicating ingress of seal material. The condition of the oil is acceptable for the time in service.

view report

28 Apr 2022 Diag: Don Baldridge

DIRT

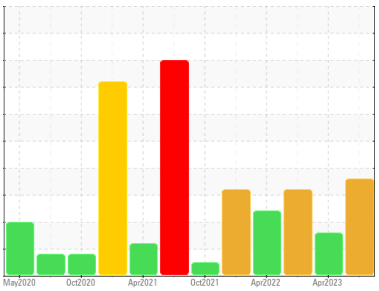
No corrective action is recommended at this time. Resample at the next service interval to monitor.Bearing and/or bushing wear is indicated. Elemental level of silicon (Si) above normal. The condition of the oil is acceptable for the time in service.

view report

OIL DIAGNOSTICS

OIL ANALYSIS REPORT

Sample Rating Trend



DIRT

Area
[98348012]
Machine Id
KR-HA-005549 - TRIMMER 2 SMALL (S/N HAM PACK - 10193004)
Component
Gear Reducer
Fluid
SCHAEFFER 294 SUPREME GEAR LUBE ISO 460 (--- GAL)

DIAGNOSIS

▲ Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. Particle count performed inadvertently.

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.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**PCA0101716**	PCA0094061	PCA0078876
Sample Date		Client Info		**06 Jul 2023**	04 Apr 2023	02 Aug 2022
Machine Age	hrs	Client Info		**0**	0	0
Oil Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**N/A**	N/A	N/A
Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>150	**3**	6	35
Chromium	ppm	ASTM D5185m	>10	**0**	0	0
Nickel	ppm	ASTM D5185m	>10	**0**	0	<1
Titanium	ppm	ASTM D5185m		**0**	0	<1
Silver	ppm	ASTM D5185m		**0**	0	<1
Aluminum	ppm	ASTM D5185m	>25	**<1**	<1	1
Lead	ppm	ASTM D5185m	>100	**0**	0	<1
Copper	ppm	ASTM D5185m	>50	**45**	▲ 145	▲ 172
Tin	ppm	ASTM D5185m	>10	**6**	▲ 14	▲ 15
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	124	**0**	0	6
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m	306	**<1**	<1	76
Manganese	ppm	ASTM D5185m		**0**	<1	1
Magnesium	ppm	ASTM D5185m	0	**0**	2	3
Calcium	ppm	ASTM D5185m	23	**0**	4	108
Phosphorus	ppm	ASTM D5185m	1100	**723**	546	535
Zinc	ppm	ASTM D5185m	2	**0**	0	16
Sulfur	ppm	ASTM D5185m	25200	**565**	249	4929

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	▲ **71**	46	▲ 89
Sodium	ppm	ASTM D5185m		**0**	0	1
Potassium	ppm	ASTM D5185m	>20	**<1**	0	<1

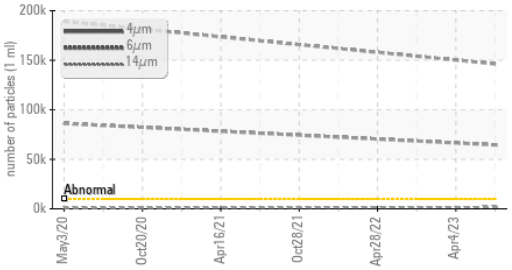
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	▲ **146238**	---	---
Particles >6µm		ASTM D7647	>2500	▲ **64531**	---	---
Particles >14µm		ASTM D7647	>640	▲ **1800**	---	---
Particles >21µm		ASTM D7647	>160	▲ **215**	---	---
Particles >38µm		ASTM D7647	>40	**4**	---	---
Particles >71µm		ASTM D7647	>10	**0**	---	---
Oil Cleanliness		ISO 4406 (c)	>20/18/16	▲ **24/23/18**	---	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.55**	---	---

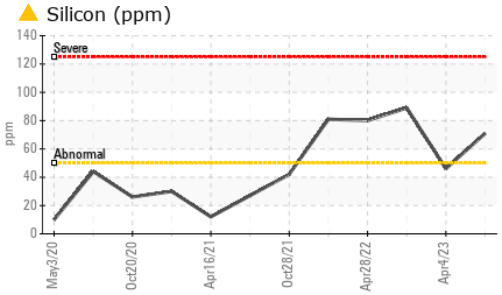
OIL ANALYSIS REPORT

OIL DIAGNOSTICS

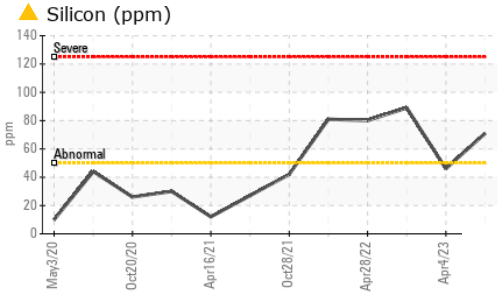
Particle Trend



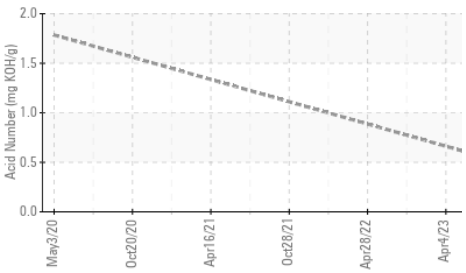
Silicon (ppm)



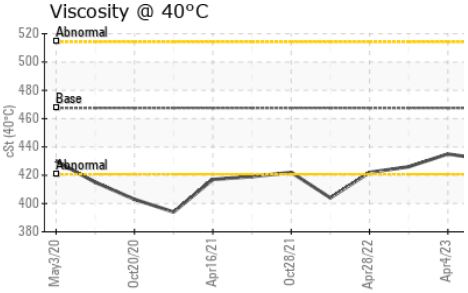
Silicon (ppm)



Acid Number



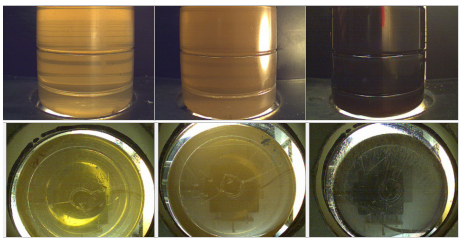
Viscosity @ 40°C



VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	MODER	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**LIGHT**	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	**NORML**	NORML	NORML
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	**NEG**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

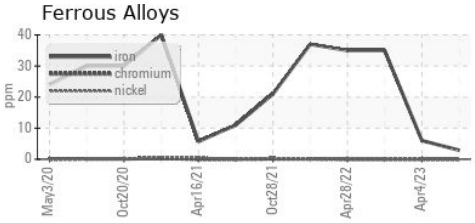
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	467.5	**431**	435	426

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

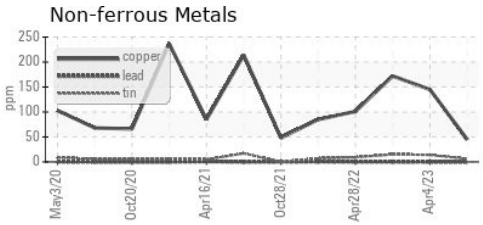


GRAPHS

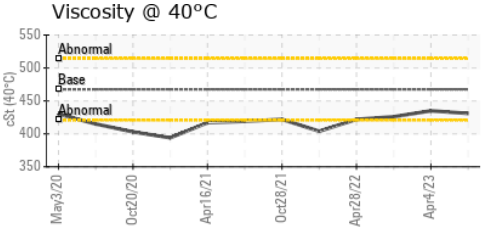
Ferrous Alloys



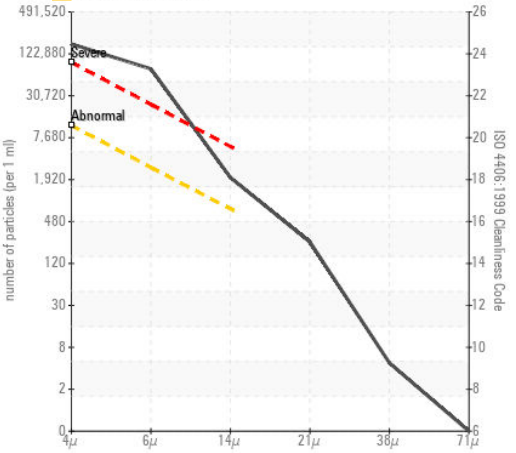
Non-ferrous Metals



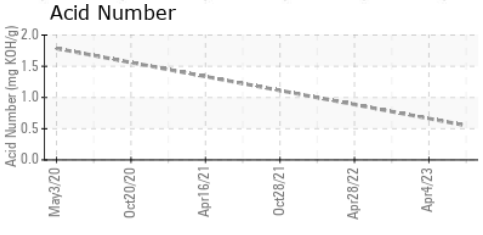
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0101716
Lab Number : 05894967
Unique Number : 10550777
Test Package : IND 2 (Additional Tests: PrtCount)

Received : 11 Jul 2023
Diagnosed : 13 Jul 2023
Diagnostician : Doug Bogart

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)

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