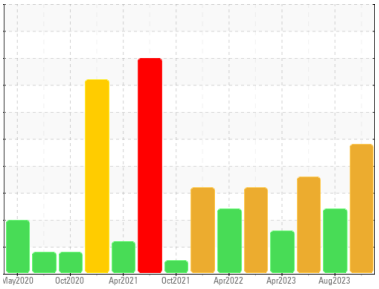
OIL DIAGNOSTICS

PROBLEM SUMMARY

Sample Rating Trend

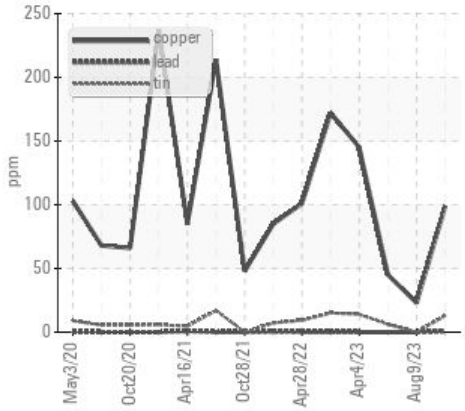


DIRT

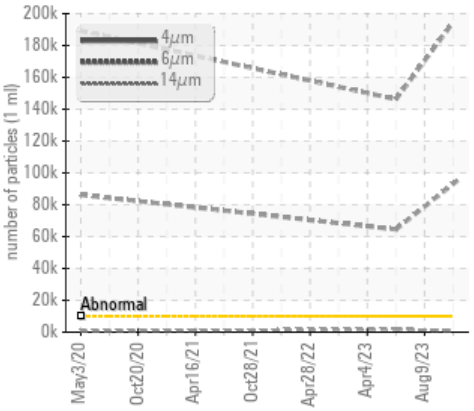
Area
[98590022]
Machine Id
KR-HA-005549 - TRIMMER 2 SMALL (S/N HAM PACK - 10193004)
Component
Gear Reducer
Fluid
SCHAEFFER 294 SUPREME GEAR LUBE ISO 460 (--- GAL)

COMPONENT CONDITION SUMMARY

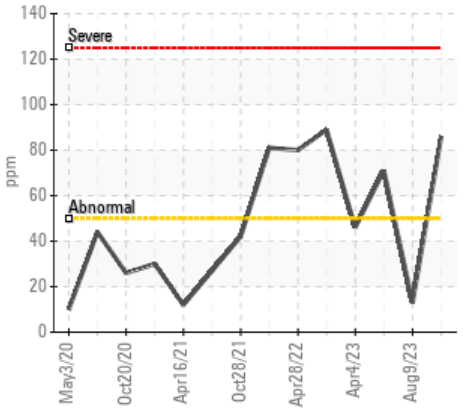
▲ Non-ferrous Metals



▲ Particle Trend



▲ Silicon (ppm)



RECOMMENDATION

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

PROBLEMATIC TEST RESULTS

Sample Status				**ABNORMAL**	ATTENTION	ABNORMAL
Copper	ppm	ASTM D5185m	>50	▲ **99**	23	45
Tin	ppm	ASTM D5185m	>10	▲ **13**	0	6
Silicon	ppm	ASTM D5185m	>50	▲ **86**	13	▲ 71
Particles >4µm		ASTM D7647	>10000	▲ **194647**	---	▲ 146238
Particles >6µm		ASTM D7647	>2500	▲ **93056**	---	▲ 64531
Particles >14µm		ASTM D7647	>640	▲ **910**	---	▲ 1800
Oil Cleanliness		ISO 4406 (c)	>20/18/16	▲ **25/24/17**	---	▲ 24/23/18

Customer Id: KRAKIR
Sample No.: PCA0051938
Lab Number: 06000479
Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:
Don Baldridge +1
don.b505@comcast.net

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

09 Aug 2023 Diag: Jonathan Hester

VISCOSITY

No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. Additive levels indicate the addition of a different brand, or type of oil. Viscosity of sample indicates oil is within ISO 320 range, advise investigate. Confirm oil type.

view report

06 Jul 2023 Diag: Doug Bogart

DIRT

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. Particle count performed inadvertently.All component wear rates are normal. There is a high amount of particulates present in the oil. Elemental level of silicon (Si) above normal. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

view report

04 Apr 2023 Diag: Jonathan Hester

WEAR

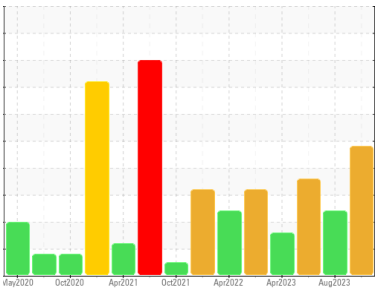
No corrective action is recommended at this time. Resample at the next service interval to monitor.Bearing and/or bushing wear is indicated. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

view report

OIL DIAGNOSTICS

OIL ANALYSIS REPORT

Sample Rating Trend



DIRT

Area
[98590022]
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.

▲ Wear
Bearing and/or bushing wear is indicated.

▲ 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		**PCA0051938**	PCA0101930	PCA0101716
Sample Date		Client Info		**31 Oct 2023**	09 Aug 2023	06 Jul 2023
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**	ATTENTION	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>150	**4**	7	3
Chromium	ppm	ASTM D5185m	>10	**0**	0	0
Nickel	ppm	ASTM D5185m	>10	**1**	0	0
Titanium	ppm	ASTM D5185m		**0**	0	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>25	**<1**	0	<1
Lead	ppm	ASTM D5185m	>100	**<1**	0	0
Copper	ppm	ASTM D5185m	>50	▲ **99**	23	45
Tin	ppm	ASTM D5185m	>10	▲ **13**	0	6
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	0
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m	306	**0**	▲ 23	<1
Manganese	ppm	ASTM D5185m		**<1**	0	0
Magnesium	ppm	ASTM D5185m	0	**0**	0	0
Calcium	ppm	ASTM D5185m	23	**4**	10	0
Phosphorus	ppm	ASTM D5185m	1100	**475**	▲ 710	723
Zinc	ppm	ASTM D5185m	2	**0**	▲ 750	0
Sulfur	ppm	ASTM D5185m	25200	**578**	▲ 9381	565

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	▲ **86**	13	▲ 71
Sodium	ppm	ASTM D5185m		**1**	0	0
Potassium	ppm	ASTM D5185m	>20	**<1**	0	<1

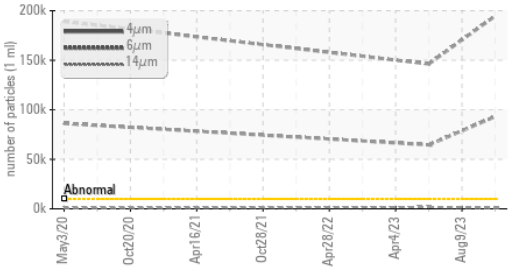
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	▲ **194647**	---	▲ 146238
Particles >6µm		ASTM D7647	>2500	▲ **93056**	---	▲ 64531
Particles >14µm		ASTM D7647	>640	▲ **910**	---	▲ 1800
Particles >21µm		ASTM D7647	>160	**81**	---	▲ 215
Particles >38µm		ASTM D7647	>40	**0**	---	4
Particles >71µm		ASTM D7647	>10	**0**	---	0
Oil Cleanliness		ISO 4406 (c)	>20/18/16	▲ **25/24/17**	---	▲ 24/23/18

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.48**	---	0.55

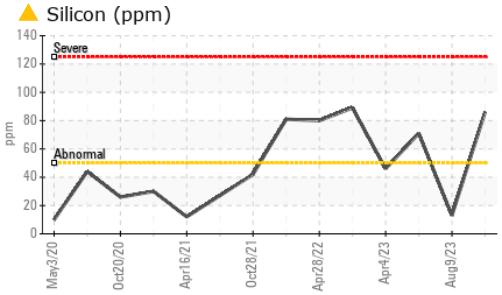
OIL DIAGNOSTICS

OIL ANALYSIS REPORT

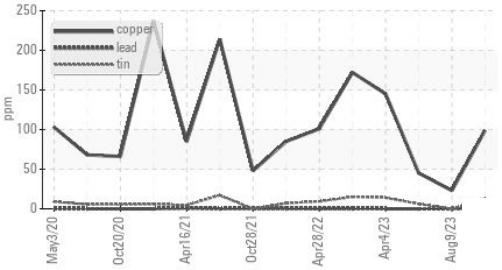
Particle Trend



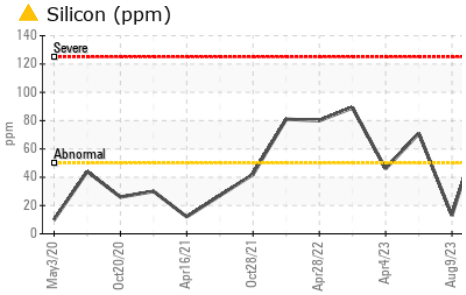
Silicon (ppm)



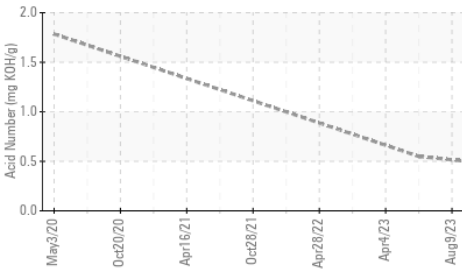
Non-ferrous Metals



Silicon (ppm)

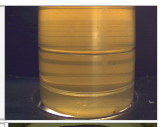
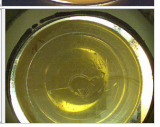


Acid Number



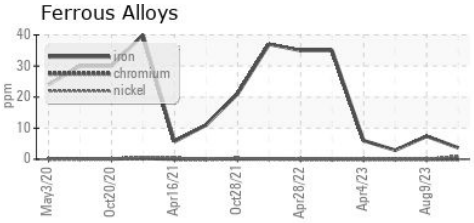
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**LIGHT**	NONE	LIGHT
Sand/Dirt	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	**411**	▲ 305	431

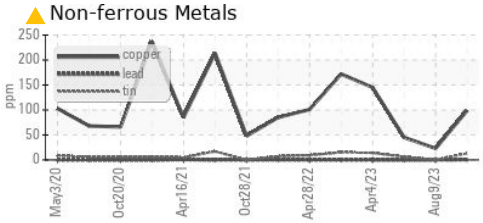
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				*no image*	
Bottom				*no image*	

GRAPHS

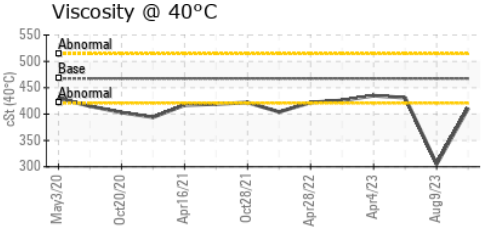
Ferrous Alloys



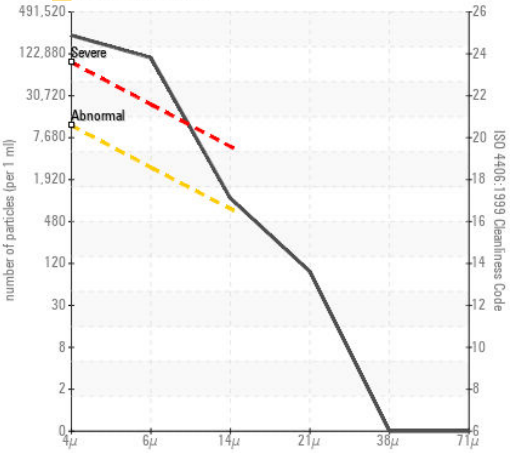
Non-ferrous Metals



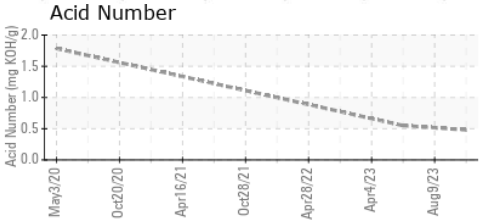
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0051938 **Received** : 07 Nov 2023
Lab Number : 06000479 **Diagnosed** : 09 Nov 2023
Unique Number : 10728839 **Diagnostician** : Don Baldridge
Test Package : IND 2 (Additional Tests: PrtCount)

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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