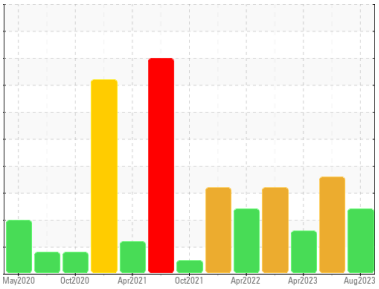
OIL DIAGNOSTICS

PROBLEM SUMMARY

Sample Rating Trend

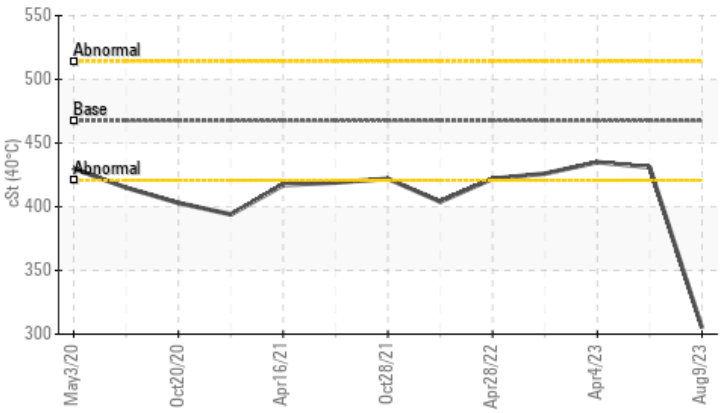


VISCOSITY

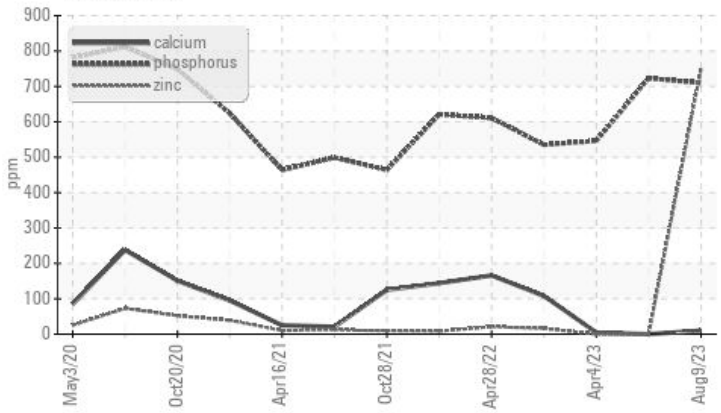
Machine Id
KR-HA-005549 - TRIMMER 2 SMALL (S/N HAM PACK - 10193004)
Component
Gear Reducer
Fluid
SCHAEFFER 294 SUPREME GEAR LUBE ISO 460 (--- GAL)

COMPONENT CONDITION SUMMARY

▲ Viscosity @ 40°C



▲ Additives



RECOMMENDATION

No corrective action is recommended at this time.
Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				ATTENTION	ABNORMAL	ABNORMAL
Boron	ppm	ASTM D5185m	124	▲ **0**	0	0
Molybdenum	ppm	ASTM D5185m	306	▲ **23**	<1	<1
Phosphorus	ppm	ASTM D5185m	1100	▲ **710**	723	546
Zinc	ppm	ASTM D5185m	2	▲ **750**	0	0
Sulfur	ppm	ASTM D5185m	25200	▲ **9381**	565	249
Visc @ 40°C	cSt	ASTM D445	467.5	▲ **305**	431	435

Customer Id: KRAKIR
Sample No.: PCA0101930
Lab Number: 05925190
Test Package: IND 1

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

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

02 Aug 2022 Diag: Jonathan Hester

DIRT

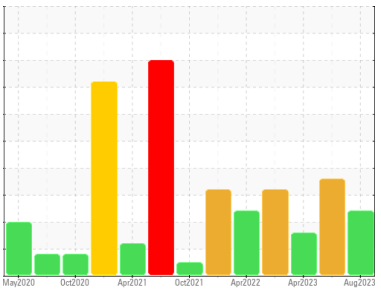
No corrective action is recommended at this time. Resample at the next service interval to monitor.Bearing and/or bushing wear is indicated. Elemental level of silicon (Si) above normal indicating ingress of seal material. The condition of the oil is acceptable for the time in service.

view report

OIL DIAGNOSTICS

OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY

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

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

▲ Fluid Condition

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.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**PCA0101930**	PCA0101716	PCA0094061
Sample Date		Client Info		**09 Aug 2023**	06 Jul 2023	04 Apr 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				**ATTENTION**	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>150	**7**	3	6
Chromium	ppm	ASTM D5185m	>10	**0**	0	0
Nickel	ppm	ASTM D5185m	>10	**0**	0	0
Titanium	ppm	ASTM D5185m		**0**	0	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>25	**0**	<1	<1
Lead	ppm	ASTM D5185m	>100	**0**	0	0
Copper	ppm	ASTM D5185m	>50	**23**	45	▲ 145
Tin	ppm	ASTM D5185m	>10	**0**	6	▲ 14
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	▲ **23**	<1	<1
Manganese	ppm	ASTM D5185m		**0**	0	<1
Magnesium	ppm	ASTM D5185m	0	**0**	0	2
Calcium	ppm	ASTM D5185m	23	**10**	0	4
Phosphorus	ppm	ASTM D5185m	1100	▲ **710**	723	546
Zinc	ppm	ASTM D5185m	2	▲ **750**	0	0
Sulfur	ppm	ASTM D5185m	25200	▲ **9381**	565	249

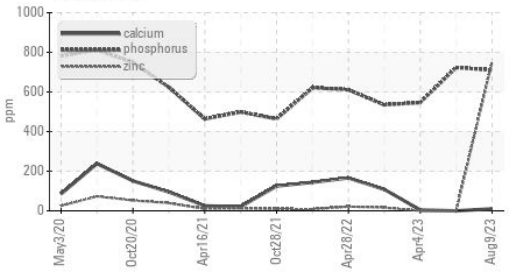
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	**13**	▲ 71	46
Sodium	ppm	ASTM D5185m		**0**	0	0
Potassium	ppm	ASTM D5185m	>20	**0**	<1	0

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	MODER
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	**NONE**	LIGHT	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

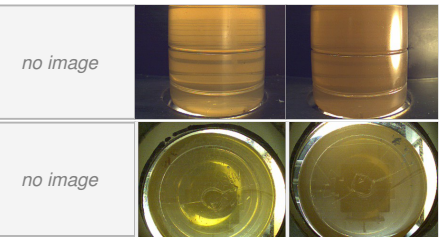
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	467.5	▲ **305**	431	435

OIL ANALYSIS REPORT

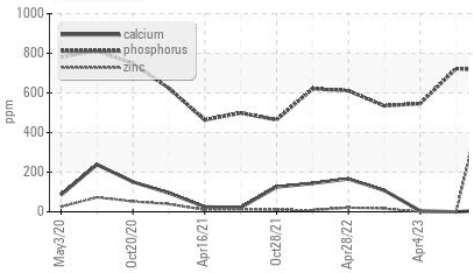
Additives



SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

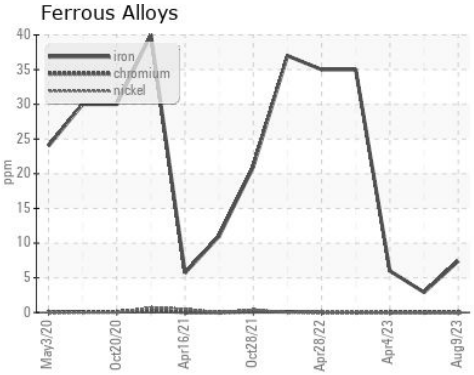


Additives

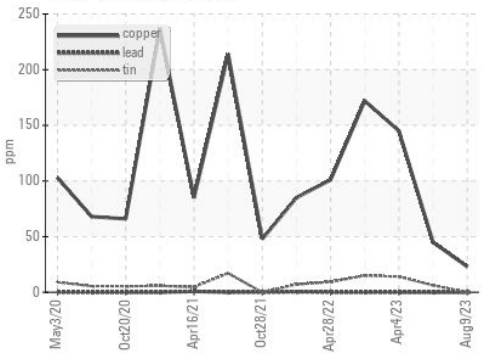


GRAPHS

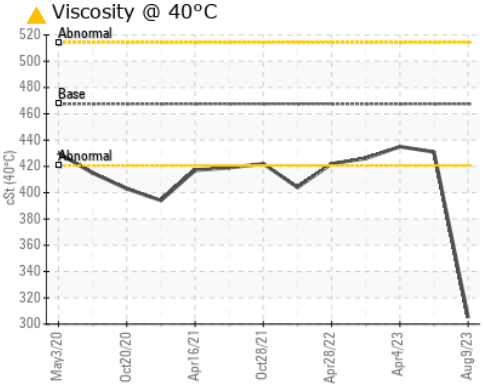
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Certificate L2367

Laboratory	: WearCheck USA - 501 Madison Ave., Cary, NC 27513			
Sample No.	: PCA0101930	**Received**	: 15 Aug 2023	
Lab Number	: 05925190	**Diagnosed**	: 18 Aug 2023	
Unique Number	: 10605137	**Diagnostician**	: Jonathan Hester	
Test Package	: IND 1			

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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