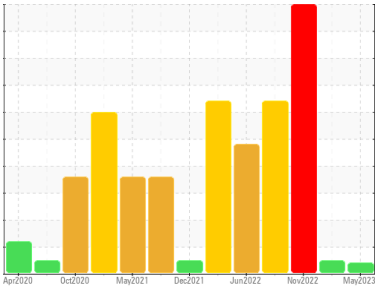
OIL DIAGNOSTICS

PROBLEM SUMMARY

Area
[98139019]
Machine Id
KR-GR-002930 - GRINDER A1 (EAST) (S/N GRIND A - 11513021)
Component
Gearbox
Fluid
GEAR OIL ISO 220 (6 QTS)

Sample Rating Trend



VIS DEBRIS

COMPONENT CONDITION SUMMARY

No relevant graphs to display

RECOMMENDATION

We suspect abnormal contamination may be due to sampling method. No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				**ABNORMAL**	NORMAL	SEVERE
Debris	scalar	*Visual	NONE	▲ **MODER**	NONE	NONE

Customer Id: KRAKIR
Sample No.: PCA0093106
Lab Number: 05839684
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

07 Feb 2023 Diag: Doug Bogart

NORMAL

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

view report

08 Nov 2022 Diag: Jonathan Hester

WEAR

We advise that you check for the source of water entry. We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.Bearing and/or gear wear is indicated. Appearance is milky. Free water present. There is a high concentration of water present in the oil. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. Viscosity of sample indicates oil is within ISO 460 range, advise investigate. Confirm oil type. The oil is no longer serviceable due to the presence of contaminants.

view report

21 Jul 2022 Diag: Don Baldridge

WATER

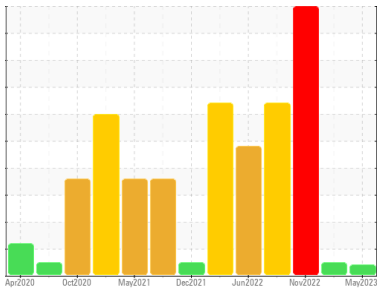
We advise that you check for the source of water entry. We advise that you follow the water drain-off procedure for this component. We recommend an early resample to monitor this condition.Bearing and/or gear wear is indicated. Elemental level of silicon (Si) above normal indicating ingress of seal material. There is a moderate concentration of water present in the oil. Free water present. The condition of the oil is acceptable for the time in service.

view report

OIL ANALYSIS REPORT

OIL DIAGNOSTICS

Sample Rating Trend



VIS DEBRIS

Area
[98139019]
Machine Id
KR-GR-002930 - GRINDER A1 (EAST) (S/N GRIND A - 11513021)
Component
Gearbox
Fluid
GEAR OIL ISO 220 (6 QTS)

DIAGNOSIS

Recommendation
We suspect abnormal contamination may be due to sampling method. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

Contamination
Moderate concentration of visible dirt/debris present in the oil.

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

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**PCA0093106**	PCA0089554	PCA0081591
Sample Date		Client Info		**04 May 2023**	07 Feb 2023	08 Nov 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**	NORMAL	SEVERE

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	**16**	14	⬢ 747
Chromium	ppm	ASTM D5185m	>15	**2**	2	13
Nickel	ppm	ASTM D5185m	>15	**0**	0	4
Titanium	ppm	ASTM D5185m		**0**	0	<1
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>25	**0**	2	▲ 15
Lead	ppm	ASTM D5185m	>100	**0**	0	6
Copper	ppm	ASTM D5185m	>200	**<1**	2	⬢ 401
Tin	ppm	ASTM D5185m	>25	**0**	<1	1
Vanadium	ppm	ASTM D5185m		**0**	0	<1
Cadmium	ppm	ASTM D5185m		**0**	0	0

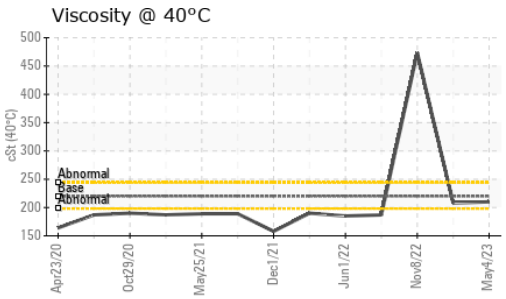
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	**0**	<1	24
Barium	ppm	ASTM D5185m	15	**0**	2	0
Molybdenum	ppm	ASTM D5185m	15	**0**	<1	101
Manganese	ppm	ASTM D5185m		**0**	<1	3
Magnesium	ppm	ASTM D5185m	50	**<1**	<1	2
Calcium	ppm	ASTM D5185m	50	**0**	2	21
Phosphorus	ppm	ASTM D5185m	350	**370**	324	534
Zinc	ppm	ASTM D5185m	100	**0**	4	264
Sulfur	ppm	ASTM D5185m	12500	**2005**	1600	15721

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	**2**	3	▲ 66
Sodium	ppm	ASTM D5185m		**0**	0	2
Potassium	ppm	ASTM D5185m	>20	**<1**	<1	1

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**MODER**	MODER	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	▲ **MODER**	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	**NORML**	NORML	▲ MILKY
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	**NEG**	NEG	⬢ 0.2%
Free Water	scalar	*Visual		**NEG**	NEG	▲ 1.0

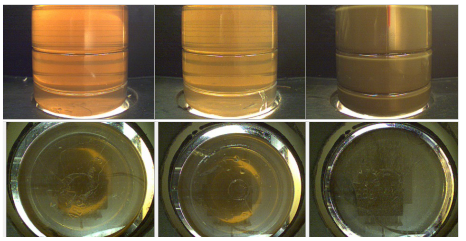
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	220	**210**	208	▲ 473.3

OIL ANALYSIS REPORT

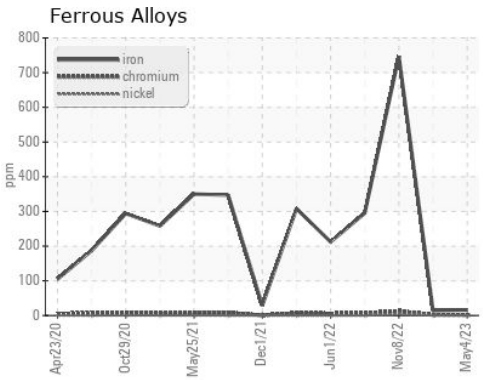


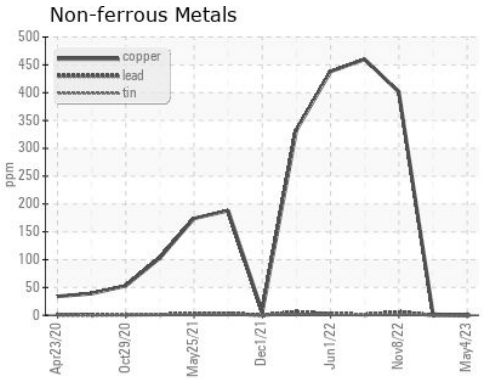
SAMPLE IMAGES

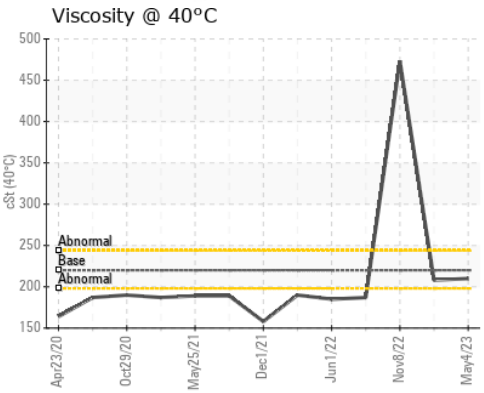
	method	limit/base	current	history1	history2
Color					
Bottom					



GRAPHS







Certificate L2367

Laboratory	: WearCheck USA - 501 Madison Ave., Cary, NC 27513			
Sample No.	: PCA0093106	**Received**	: 05 May 2023	
Lab Number	: 05839684	**Diagnosed**	: 10 May 2023	
Unique Number	: 10458487	**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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