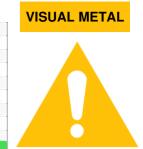


PROBLEM SUMMARY

Sample Rating Trend



KR-GR-003227 - REWORK GRINDER (S/N GRIND A - 11555379)

Gearbox

GEAR OIL ISO 220 (--- LTR)

COMPONENT CONDITION SUMMARY

No relevant graphs to display

RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to metal particles present in this sample.

PROBLEMATIC TEST RESULTS

Sample Status ABNORMAL NORMAL **ABNORMAL** White Metal scalar *Visual NONE **MODER** MODER A HEAVY

Customer Id: KRAKIR Sample No.: PCA0104775 Lab Number: 05945712 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 ihester@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.
Alert			?	We were unable to perform a particle count due to metal particles present in this sample.

HISTORICAL DIAGNOSIS

07 Jul 2023 Diag: Don Baldridge

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.



02 May 2023 Diag: Jonathan Hester

VISUAL METAL



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



22 Mar 2023 Diag: Doug Bogart

NORMAL



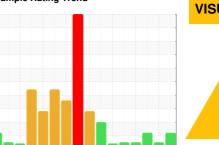
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.





OIL ANALYSIS REPORT

Sample Rating Trend



VISUAL METAL

history2

nistory1

KR-GR-003227 - REWORK GRINDER (S/N GF

Gearbox

GEAR OIL ISO 220 (--- LTR)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to metal particles present in this sample.

Moderate concentration of visible metal present. All component wear rates are normal.

Contamination

There is no indication of any contamination in the

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

RIND A - 11555379)	b ₀ /320 0 ₀ /2010	Ap/2021 0cd023	April 022 Sept 022 Mar 2023	Jui2023
SAMPLE INFORMATION	method	limit/base	current	h
ample Number	Client Info		PCA0104775	PCAC

0 1 1		011 11 1		DO 10101777	DO 4 00000 17	DO 4 00 700 70
Sample Number		Client Info		PCA0104775	PCA0099345	PCA0073076
Sample Date		Client Info		01 Sep 2023	07 Jul 2023	02 May 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	NORMAL	ABNORMAL
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	91	96	86
Chromium	ppm	ASTM D5185m	>15	2	2	<1
Nickel	ppm	ASTM D5185m	>15	0	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	9	9	3
Lead	ppm	ASTM D5185m	>100	4	<1	0
Copper	ppm	ASTM D5185m	>200	136	123	116
Tin	ppm	ASTM D5185m	>25	<1	<1	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	13	9	10
Barium	ppm	ASTM D5185m	15	0	0	0
Molybdenum	ppm	ASTM D5185m	15	84	81	82
Manganese	ppm	ASTM D5185m		2	3	2
Magnesium	ppm	ASTM D5185m	50	0	0	3
Calcium	ppm	ASTM D5185m	50	8	14	4
Phosphorus	ppm	ASTM D5185m	350	441	436	411
Zinc	ppm	ASTM D5185m	100	79	74	67
Sulfur	ppm	ASTM D5185m	12500	9466	9981	9568
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	24	23	21
Sodium	ppm	ASTM D5185m		7	6	6
Potassium	ppm	ASTM D5185m	>20	4	4	4
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.85	0.54		
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	▲ MODER	MODER	▲ HEAVY
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	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

Free Water

scalar

*Visual

scalar *Visual

>0.2

NEG

NEG

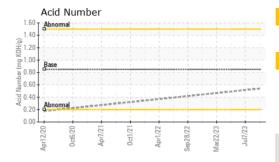
NEG

NEG

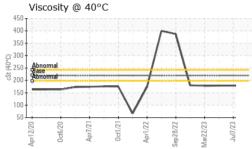
NEG



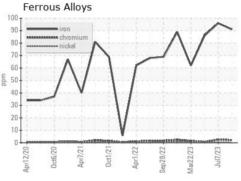
OIL ANALYSIS REPORT

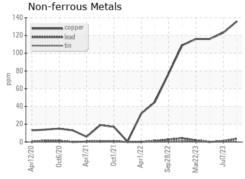


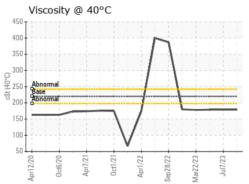


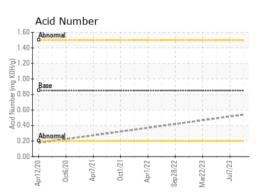


GRAPHS











Certificate L2367

Laboratory Sample No. Lab Number Unique Number

: PCA0104775 : 05945712 : 10636324

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received Diagnosed

: 08 Sep 2023 : 13 Sep 2023 : Jonathan Hester Diagnostician

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)

KraftHeinz - Kirksville - Plant 8333 PCA

2504 INDUSTRIAL DR KIRKSVILLE, MO

US 63501

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