

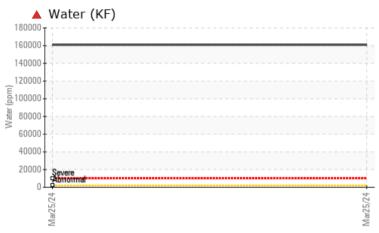
PROBLEM SUMMARY

Machine Id SALVAGE SURGE Component

Gearbox



COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. Else we advise that you perform a filter service and use off-line filtration to improve the cleanliness of the system fluid. We were unable to perform a particle count due to a high concentration of particles and water present in this sample. Please note that there was too much water present in the oil to perform a viscosity test.

PROBLEMATIC	TEST RE	SULTS			
Sample Status				SEVERE	
Water	%	ASTM D6304	>0.2	16.1	
ppm Water	ppm	ASTM D6304	>2000	▲ 161000	
Silt	scalar	*Visual	NONE	A MODER	
Emulsified Water	scalar	*Visual	>0.2	0.2%	

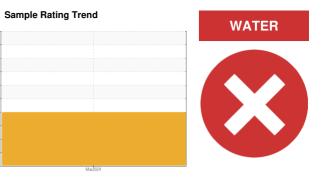
Customer Id: KRALOWUSP Sample No.: USP0008321 Lab Number: 06132057 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Doug Bogart +1 (800)237-1369 x4016 <u>dougb@wearcheckusa.com</u>

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com



RECOMMENDED A	CTIONS			
Action	Status	Date	Done By	Description
Change Fluid			?	We recommend that you drain the oil from the component if this has not already been done.
Change Filter			?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.
Alert			?	We were unable to perform a particle count due to a high concentration of particles present in this sample.
Check Water Access			?	We advise that you check for the source of water entry.
Filter Fluid			?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

WATER

Machine Id SALVAGE SURGE Component

Gearbox

LUBRIPLATE SFGO ULTRA 220 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. Else we advise that you perform a filter service and use off-line filtration to improve the cleanliness of the system fluid. We were unable to perform a particle count due to a high concentration of particles and water present in this sample. Please note that there was too much water present in the oil to perform a viscosity test.

Wear

All component wear rates are normal.

Contamination

Appearance is unacceptable. There is a moderate amount of visible silt present in the sample. There is a high concentration of water present in the oil.

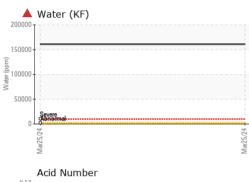
Fluid Condition

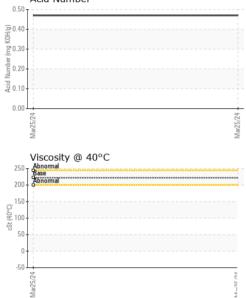
The AN level is acceptable for this fluid. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0008321		
Sample Date		Client Info		25 Mar 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				SEVERE		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	165		
Chromium	ppm	ASTM D5185m	>15	1		
Nickel	ppm	ASTM D5185m	>15	2		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		<1		
Aluminum	ppm	ASTM D5185m	>25	2		
Lead	ppm	ASTM D5185m	>100	<1		
Copper	ppm	ASTM D5185m	>200	<1		
Tin	ppm	ASTM D5185m	>25	2		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
ADDITIVES Boron	ppm	method ASTM D5185m	limit/base	current 3	history1	history2
	ppm ppm		limit/base			
Boron		ASTM D5185m	limit/base	3		
Boron Barium	ppm	ASTM D5185m ASTM D5185m	limit/base	3 0		
Boron Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	3 0 0		
Boron Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	3 0 0 <1		
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	3 0 0 <1 2		
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	3 0 0 <1 2 5	 	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	3 0 0 <1 2 5 97	 	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	3 0 0 <1 2 5 97 2	 	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		3 0 2 5 97 2 1215		
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	3 0 0 <1 2 5 97 2 1215 current	 history1	 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	limit/base	3 0 0 <1 2 5 97 2 1215 2 1215 current	 history1	 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	limit/base >50	3 0 0 <1 2 5 97 2 1215 2 1215 current 5 <	 history1	 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	limit/base >50 >20	3 0 0 <1 2 5 97 2 1215 2 1215 current 5 <1 2	 history1	 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	limit/base >50 >20 >0.2	3 0 0 <1 2 5 97 2 1215 2 1215 current 5 <1 2 <1 2 16.1	 history1 	 history2



OIL ANALYSIS REPORT





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APHS rous Alloys			•	no image	no image
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copper lead		Mar25/24			
copper lead		Ĭ			
lead					



Unique Number : 10951522 Diagnosed : 29 Mar 2024 - Doug Bogart Test Package : IND 2 Contact: Service Manager Certificate L2367 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)

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

Received

Tested

Viscosity @ 40°C

250

200

CSt (40°C) cSt (40°C)

50

-50

Laboratory

Sample No.

Lab Number : 06132057

Mar25/24

: USP0008321

Contact/Location: Service Manager - KRALOWUSP

KraftHeinz - Lowville - Plant 8322 USP

Acid Number

0.50

(B)H0.40

Ê 0.30 ਦੈ 0.20

- pg 0.10

Mar25/24 -

: 28 Mar 2024

: 29 Mar 2024

0.00

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LOWVILLE, NY

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