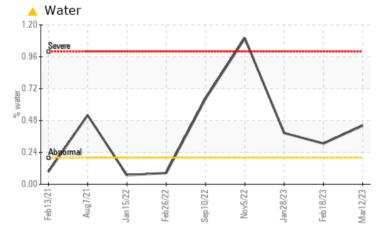


# **PROBLEM SUMMARY**

#### Area **PROCESS CHEESE [98077076]** Machine Id **COOKER 11** Component

Gearbox Fluid GEAR OIL ISO 320 (--- GAL)

# COMPONENT CONDITION SUMMARY



# RECOMMENDATION

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. There is too much water present in this sample to perform a particle count.

#### **PROBLEMATIC TEST RESULTS** Sample Status ABNORMAL ABNORMAL ABNORMAL Water % ASTM D6304 >0.2 0.441 ▲ 0.307 ▲ 0.386 ppm Water ASTM D6304 >2000 4410 ▲ 3070 ▲ 3860 ppm NORML A HAZY Appearance scalar \*Visual HAZY MILKY **Emulsified Water** scalar \*Visual >0.2 **0.2%** 0.2% ▲ 0.2% scalar \*Visual Free Water NEG **1**.0

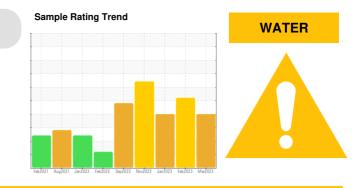
Customer Id: KRASPRMO Sample No.: PCA0088316 Lab Number: 05797320 Test Package: IND 2



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 <u>customerservice@wearcheck.com</u>



RECOMMENDED ACTIONS							
Action	Status	Date	Done By	Description			
Resample			?	We recommend an early resample to monitor this condition.			
Check Water Access			?	We advise that you check for the source of water entry.			

# HISTORICAL DIAGNOSIS



# 18 Feb 2023 Diag: Doug Bogart

We advise that you check for the source of water entry. We advise that you perform a filter service, and use offline filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition.Gear wear is indicated. Appearance is milky. There is a high amount of particulates present in the oil. There is a moderate concentration of water present in the oil. The AN level is acceptable for this fluid.



view report

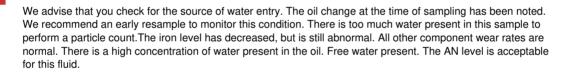
### 28 Jan 2023 Diag: Don Baldridge



We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. There is too much water present in this sample to perform a particle count.All component wear rates are normal. Appearance is hazy. There is a light concentration of water present in the oil. Free water present. The AN level is acceptable for this fluid.

### 05 Nov 2022 Diag: Don Baldridge











# **OIL ANALYSIS REPORT**

### Area **PROCESS CHEESE [98077076]** Machine Id **COOKER 11** Component

Gearbox Fluid GEAR OIL ISO 320 (--- GAL)

## DIAGNOSIS

### Recommendation

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. There is too much water present in this sample to perform a particle count.

# Wear

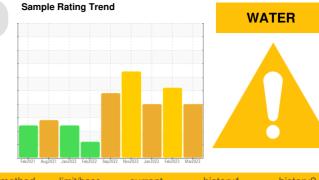
All component wear rates are normal.

### Contamination

Appearance is hazy. There is a light concentration of water present in the oil. Free water present.

### Fluid Condition

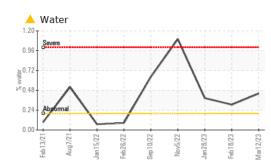
The AN level is acceptable for this fluid.

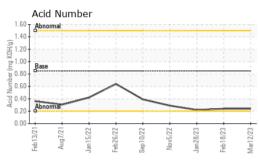


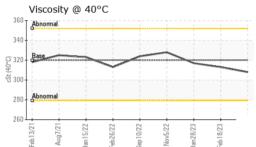
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0088316	PCA0081566	PCA0081537
Sample Date		Client Info		12 Mar 2023	18 Feb 2023	28 Jan 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	43	196	99
Chromium	ppm	ASTM D5185m	>15	0	<1	<1
Nickel	ppm	ASTM D5185m	>15	<1	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	1	<1	0
Lead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm		>200	0	<1	0
Tin	ppm	ASTM D5185m	>25	0	0	0
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	50	0	0	0
Barium	ppm	ASTM D5185m	15	0	0	0
Molybdenum	ppm	ASTM D5185m	15	0	0	0
Manganese	ppm	ASTM D5185m		<1	1	<1
Magnesium	ppm	ASTM D5185m	50	0	<1	1
Calcium	ppm	ASTM D5185m	50	0	2	4
Phosphorus	ppm	ASTM D5185m	350	449	473	552
Zinc	ppm	ASTM D5185m	100	<1	0	0
Sulfur	ppm	ASTM D5185m	12500	1265	1391	1315
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	2	3	3
Sodium	ppm	ASTM D5185m		4	7	12
Potassium	ppm	ASTM D5185m	>20	1	1	2
Water	%	ASTM D6304	>0.2	<b>A</b> 0.441	▲ 0.307	▲ 0.386
ppm Water	ppm	ASTM D6304	>2000	<b>4</b> 410	<b>A</b> 3070	▲ 3860
FLUID CLEANL	INESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>1300		▲ 16329	
Particles >6µm		ASTM D7647	>320		<u> </u>	
Particles >14µm		ASTM D7647	>80		<b>1</b> 514	
Particles >21µm		ASTM D7647	>20		<u> </u>	
Particles >38µm		ASTM D7647	>4		<b>7</b> 9	
Particles >71µm		ASTM D7647	>3		<u> </u>	
Oil Cleanliness		ISO 4406 (c)	>17/15/13		<b>1</b> 21/20/18	
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.85	0.24	0.24	0.22



# **OIL ANALYSIS REPORT**

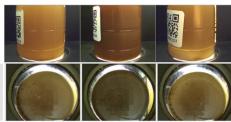






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	LIGHT	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	🔺 HAZY	🔺 MILKY	🔺 HAZY
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>A</b> 0.2%	0.2%	▲ 0.2%
Free Water	scalar	*Visual		<u> </u>	NEG	<b>▲</b> 1.0
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	320	308	313	317
SAMPLE IMAGES		method	limit/base	current	history1	history2
					Į.	

Color



Bottom

