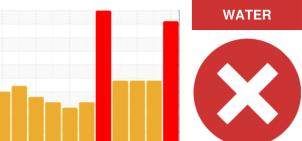


# **PROBLEM SUMMARY**

Sample Rating Trend

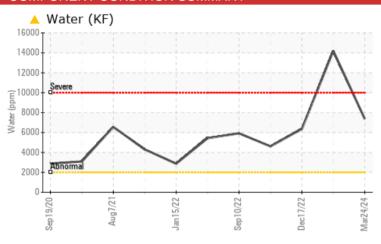


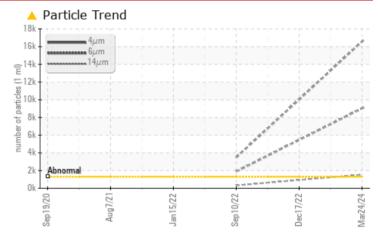
# **PROCESS CHEESE [98923824] COOKER 10**

Gearbox

GEAR OIL ISO 320 (--- GAL)

# COMPONENT CONDITION SUMMARY





# RECOMMENDATION

The oil change at the time of sampling has been noted. We recommend you service the filters on this component if applicable. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS								
Sample Status	·	SEVERE	SEVERE	ABNORMAL				
Water	%	ASTM D6304	>0.2	<b>△</b> 0.737	<b>▲</b> 1.42	<b>△</b> 0.636		
ppm Water	ppm	ASTM D6304	>2000	<b>7370</b>	<b>1</b> 4200	<b>△</b> 6360		
Particles >4µm		ASTM D7647	>1300	<b>16564</b>				
Particles >6µm		ASTM D7647	>320	<b>9023</b>				
Particles >14μm		ASTM D7647	>80	<b>1536</b>				
Particles >21μm		ASTM D7647	>20	<u>▲</u> 517				
Particles >38μm		ASTM D7647	>4	<u>^</u> 80				
Particles >71μm		ASTM D7647	>3	<u>^</u> 8				
Oil Cleanliness		ISO 4406 (c)	>17/15/13	<u>^</u> 21/20/18				
Free Water	scalar	*Visual		<b>2.0</b>	NEG	<b>▲</b> 1.0		

Customer Id: KRASPRMO Sample No.: PCA0120252 Lab Number: 06131999 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

RECOMMEND	RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description			
Change Filter			?	We recommend you service the filters on this component if applicable.			
Resample			?	We recommend an early resample to monitor this condition.			

## HISTORICAL DIAGNOSIS

## 17 Jun 2023 Diag: Don Baldridge

WATER



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. There is a high concentration of water present in the oil. There is a high amount of visible silt present in the sample. The AN level is acceptable for this fluid.



#### WATER



17 Dec 2022 Diag: Doug Bogart
We advise that you check for the source of water entry. The oil change at the time of sampling has been noted.
Resample at the next service interval to monitor. There is too much water present in this sample to perform a particle count. Gear wear is indicated. There is a moderate concentration of water present in the oil. Free water present. The AN level is acceptable for this fluid.



#### WATER



05 Nov 2022 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. Resample at the next service interval to monitor. There is too much water present in this sample to perform a particle count. All component wear rates are normal. There is a moderate concentration of water present in the oil. Free water present. The AN level is acceptable for this fluid.





# **OIL ANALYSIS REPORT**

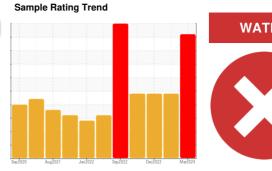
Area

# PROCESS CHEESE [98923824] COOKER 10

Gearbox

Cluid

GEAR OIL ISO 320 (--- GAL)



## **DIAGNOSIS**

### Recommendation

The oil change at the time of sampling has been noted. We recommend you service the filters on this component if applicable. We recommend an early resample to monitor this condition.

#### Wear

All component wear rates are normal.

## Contamination

There is a high amount of particulates present in the oil. Free water present. There is a moderate concentration of water present in the oil.

### **Fluid Condition**

The AN level is acceptable for this fluid.

SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0120252	PCA0100128	PCA0076157
Sample Date		Client Info		24 Mar 2024	17 Jun 2023	17 Dec 2022
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				SEVERE	SEVERE	ABNORMAL
WEAR METAL	_S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	136	92	<u>^</u> 289
Chromium	ppm	ASTM D5185m	>15	<1	<1	2
Nickel	ppm	ASTM D5185m	>15	2	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	1	<1	<1
Lead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm	ASTM D5185m	>200	<1	0	<1
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	0	21	0
Barium	ppm	ASTM D5185m	15	0	16	0
Molybdenum	ppm	ASTM D5185m	15	0	<1	<1
Manganese	ppm	ASTM D5185m		1	1	2
Magnesium	ppm	ASTM D5185m	50	3	16	1
Calcium	ppm	ASTM D5185m	50	3	26	5
Phosphorus	ppm	ASTM D5185m	350	491	316	546
Zinc	ppm	ASTM D5185m	100	0	123	0
Sulfur	ppm	ASTM D5185m	12500	1767	18017	1115
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	2	3	4
Sodium	ppm	ASTM D5185m		4	29	15
Potassium	ppm	ASTM D5185m	>20	2	4	<1
Water	%	ASTM D6304	>0.2	<b>△</b> 0.737	<b>▲</b> 1.42	△ 0.636
ppm Water	ppm	ASTM D6304	>2000	<b>▲</b> 7370	<b>▲</b> 14200	▲ 6360
FLUID CLEAN	LINESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>1300	<b>16564</b>		
Particles >6µm		ASTM D7647	>320	<b>9023</b>		
Particles >14µm		ASTM D7647	>80	<b>1536</b>		
Particles >21µm		ASTM D7647	>20	<u></u> 517		
Particles >38µm		ASTM D7647	>4	<b>A</b> 80		
Particles >71µm		ASTM D7647	>3	<u>^</u> 8		
Oil Cleanliness		ISO 4406 (c)	>17/15/13	<u>^</u> 21/20/18		
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Acid Number (AN)	ma 1/011/a	ACTM DODAE	0.05	0.00	1.00	0.26

Acid Number (AN)

1.20

0.20

mg KOH/g ASTM D8045 0.85

0.36



# **OIL ANALYSIS REPORT**







Certificate 12367

Laboratory Sample No. Lab Number

: PCA0120252 : 06131999

Unique Number : 10951464

Received : 28 Mar 2024 **Tested** Diagnosed

: 04 Apr 2024 : 04 Apr 2024 - Jonathan Hester

2035 E BENNETT SPRINGFIELD, MO US 65804

Contact: Service Manager

Test Package : IND 2 ( Additional Tests: KF, 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)

Report Id: KRASPRMO [WUSCAR] 06131999 (Generated: 04/05/2024 12:17:18) Rev: 1

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