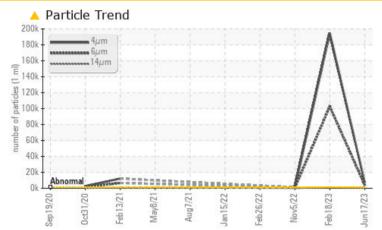


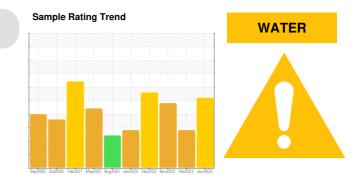
PROBLEM SUMMARY

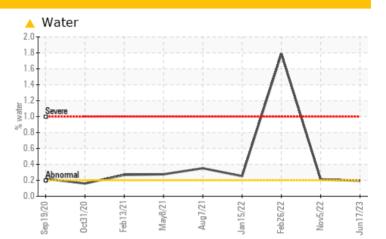
Area **PROCESS CHEESE [98316595]** Machine Id **COOKER 8** Component

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

COMPONENT CONDITION SUMMARY







RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

FRODLEMATIC TEST RESULTS							
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL	
Water	%	ASTM D6304	>0.2	A 0.195		▲ 0.212	
ppm Water	ppm	ASTM D6304	>2000	A 1950		<u> </u>	
Particles >4µm		ASTM D7647	>1300	A 7238	194546	1029	
Particles >6µm		ASTM D7647	>320	A 3943	102620	<u> </u>	
Particles >14µm		ASTM D7647	>80	<u> </u>	1 375	4 95	
Particles >21µm		ASTM D7647	>20	A 226	A 89	A 32	
Particles >38µm		ASTM D7647	>4	A 35	<u> </u>	4 5	
Particles >71µm		ASTM D7647	>3	<u> </u>	0	1	
Oil Cleanliness		ISO 4406 (c)	>17/15/13	<u> </u>	2 5/24/18	▲ 17/16/14	
Appearance	scalar	*Visual	NORML	🔺 MILKY	NORML	A HAZY	

Customer Id: KRASPRMO Sample No.: PCA0100130 Lab Number: 05887824 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 <u>jhester@wearcheckusa.com</u>

To change component or sample information: Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u> There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

18 Feb 2023 Diag: Don Baldridge



The oil change at the time of sampling has been noted. We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of particulates present in the oil. Viscosity of sample indicates oil is within ISO 220 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

05 Nov 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.All component wear rates are normal. There is a moderate amount of particulates present in the oil. There is a light concentration of water present in the oil. The oil viscosity is higher than normal. The AN level is acceptable for this fluid.

26 Feb 2022 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 Gear wear is indicated. There is a high concentration of water present in the oil. Free water present. The AN level is acceptable for this fluid.





view report

Report Id: KRASPRMO [WUSCAR] 05887824 (Generated: 07/07/2023 13:12:20) Rev: 1



OIL ANALYSIS REPORT

Sample Rating Trend

WATER

PROCESS CHEESE [98316595] **COOKER 8** Component

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

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Appearance is milky. There is a high amount of particulates present in the oil. There is a trace of moisture present in the oil.

Fluid Condition

The AN level is acceptable for this fluid.

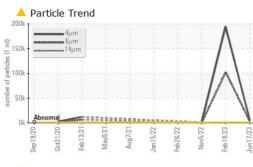
		ام م الحم مع	line it /le e e e		laisten d	bistory O
SAMPLE INFOR			limit/base		history 1	history 2
Sample Number		Client Info		PCA0100130	PCA0081570	PCA0081573
Sample Date		Client Info		17 Jun 2023	18 Feb 2023	05 Nov 2022
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METAL	S	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>200	47	62	180
Chromium	ppm	ASTM D5185m	>15	0	<1	1
Nickel	ppm	ASTM D5185m	>15	0	<1	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	<1	<1
Lead	ppm	ASTM D5185m	>100	0	0	<1
Copper	ppm	ASTM D5185m	>200	0	<1	0
Tin	ppm	ASTM D5185m	>25	0	0	<1
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
	10 Ja		line it /l.			-
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	50	0	<1	0
Barium	ppm	ASTM D5185m	15	14	0	0
Molybdenum	ppm	ASTM D5185m	15	0	<1	0
Manganese	ppm	ASTM D5185m		<1	<1	1
Magnesium	ppm	ASTM D5185m	50	12	5	0
Calcium	ppm	ASTM D5185m	50	3	22	0
Phosphorus	ppm	ASTM D5185m	350	360	285	515
Zinc	ppm	ASTM D5185m	100	60	103	1
Sulfur	ppm	ASTM D5185m	12500	1523	10260	575
CONTAMINAN	ITS	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>50	2	3	16
Sodium	ppm	ASTM D5185m		8	3	4
Potassium	ppm	ASTM D5185m	>20	0	<1	0
Water	%	ASTM D6304	>0.2	 0.195		▲ 0.212
ppm Water	ppm	ASTM D6304		A 1950		A 2120
FLUID CLEAN	LINESS	method	limit/base	current	history 1	history 2
Particles >4µm		ASTM D7647	>1300	7238	194546	1029
Particles >6µm		ASTM D7647		<u> </u>	▲ 102620	▲ 560
Particles >14µm		ASTM D7647	>80	▲ 671	▲ 1375	▲ 95
Particles >21µm		ASTM D7647	>20	<u> </u>	▲ 89	▲ 32
Particles >38µm		ASTM D7647	>4	▲ 35	4	<u> </u>
Particles >71µm		ASTM D7647		▲ 4	0	1
Oil Cleanliness		ISO 4406 (c)	>17/15/13	<u> </u>	▲ 25/24/18	▲ 17/16/14
FLUID DEGRAI		()	limit/base			
				current	history 1	history 2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.08	0.26 Saniaa Managa	0.21

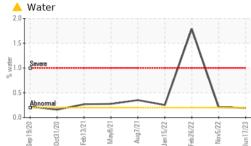
Report Id: KRASPRMO [WUSCAR] 05887824 (Generated: 07/07/2023 13:12:21) Rev: 1

Contact/Location: Service Manager - KRASPRMO

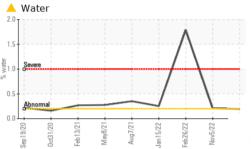


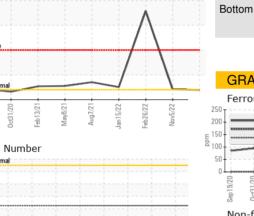
OIL ANALYSIS REPORT

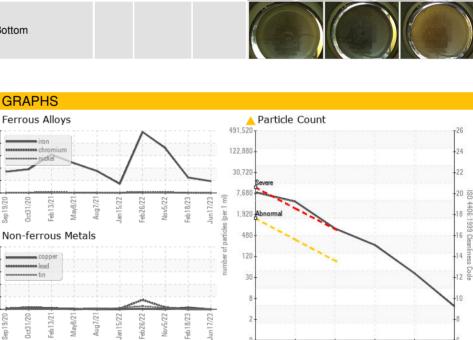




VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	🔺 MILKY	NORML	🔺 HAZY
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	0.2%	NEG	▲ 0.2%
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	320	300	2 11	▲ 387.8
SAMPLE IMAG	ES	method	limit/base	current	history 1	history 2
Color						







(B/HOX 1.50 1.00 ung KOH/g) 1.00

ō.50 الج

0.00 P

Feb18/23 -Jun17/23 -

: 30 Jun 2023

: 07 Jul 2023

Nov5/22

Diagnostician : Jonathan Hester

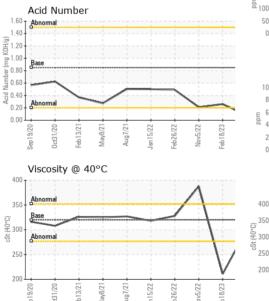
Acid Number

Abnorm

Abnormal

Bas

Sep19/20



ah13/7



0ct31/20

: PCA0100130

: 05887824

: 10538307

Base Ab

250

200

Sep19/20

10



Feb13/21

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

Mav8/21



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Aug7/21. Jan 15/22 Feb26/22

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

Received

Diagnosed

4406

19999

Certificate L2367

eh76/77 CC/2/10 eb1 Laboratory

Sample No.

Lab Number

Unique Number

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.