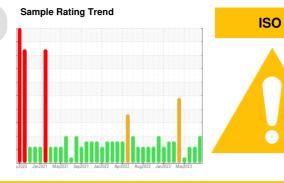


PROBLEM SUMMARY

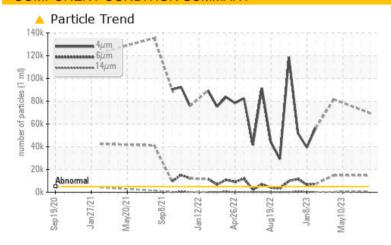
PROCESS CHEESE [98421955] Machine Id 4615-CMX

Component **Pump** Fluid

R&O OIL ISO 68 (--- GAL)



COMPONENT CONDITION SUMMARY



RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS									
Sample Status		ABNORMAL	ABNORMAL	ABNORMAL					
Particles >4µm	ASTM D7647 >500	0 4 69591							
Particles >6µm	ASTM D7647 >130	0 A 14782							
Particles >14µm	ASTM D7647 >320	<u> </u>							
Particles >21µm	ASTM D7647 >80	249							
Oil Cleanliness	ISO 4406 (c) >19/1	7/15 A 23/21/17							

Customer Id: KRASPRMO Sample No.: PCA0096857 Lab Number: 05929579 Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data: Angela Borella +1 800-237-1369 angela.borella@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 Fluid			?	Oil and filter change at the time of sampling has been noted.
Change Filter			?	Oil and filter change at the time of sampling has been noted.

HISTORICAL DIAGNOSIS

12 Jun 2023 Diag: Don Baldridge

VISUAL METAL



The oil change at the time of sampling has been noted. 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. No other contaminants were detected in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.



18 May 2023 Diag: Don Baldridge

VISUAL METAL



The oil change at the time of sampling has been noted. 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. No other contaminants were detected in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.



10 May 2023 Diag: Doug Bogart

VIS DEBRIS



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 a high concentration of particles present in this sample.All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

PROCESS CHEESE [98421955]

4615-CMX

Pump

R&O OIL ISO 68 (--- GAL)





DIAGNOSIS

Recommendation

Oil and filter 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

There is a high amount of particulates present in the oil.

Fluid Condition

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

		p2020 Jan202	1 May2021 Sep2021 Jan2	022 Apr2022 Aug2022 Jan2023	May2023	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0096857	PCA0096805	PCA0081550
Sample Date		Client Info		15 Aug 2023	12 Jun 2023	18 May 2023
Machine Age	mths	Client Info		0	0	0
Oil Age	mths	Client Info		1	1	1
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	17	8	11
Chromium	ppm	ASTM D5185m	>5	0	0	0
Nickel	ppm	ASTM D5185m	>5	0	0	<1
Titanium	ppm	ASTM D5185m	>3	<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>7	0	0	<1
Lead	ppm	ASTM D5185m	>12	0	<1	0
Copper	ppm	ASTM D5185m	>30	0	0	0
Tin	ppm	ASTM D5185m	>9	0	0	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	5	0	0	0
Barium	ppm	ASTM D5185m	5	0	2	0
Molybdenum	ppm	ASTM D5185m	5	0	0	0
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m	5	<1	<1	0
Calcium	ppm	ASTM D5185m	5	0	2	0
Phosphorus	ppm	ASTM D5185m	100	60	71	74
Zinc	ppm	ASTM D5185m	25	30	18	8
Sulfur	ppm	ASTM D5185m	1500	2	0	11
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>60	3	2	2
Sodium	ppm	ASTM D5185m		<1	0	<1
Potassium	ppm	ASTM D5185m	>20	0	1	0
FLUID CLEAN	INESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<u></u> 69591		
Particles >6µm		ASTM D7647	>1300	<u> </u>		
Particles >14µm		ASTM D7647	>320	<u>▲</u> 872		
Particles >21µm		ASTM D7647	>80	<u>^</u> 249		
Particles >38µm		ASTM D7647	>20	19		
Particles >71μm		ASTM D7647	>4	2		
Oil Cleanliness		ISO 4406 (c)	>19/17/15	<u>23/21/17</u>		
FLUID DEGRA	DATION	method	limit/base	current	history1	history2

Acid Number (AN) mg KOH/g ASTM D8045 0.08

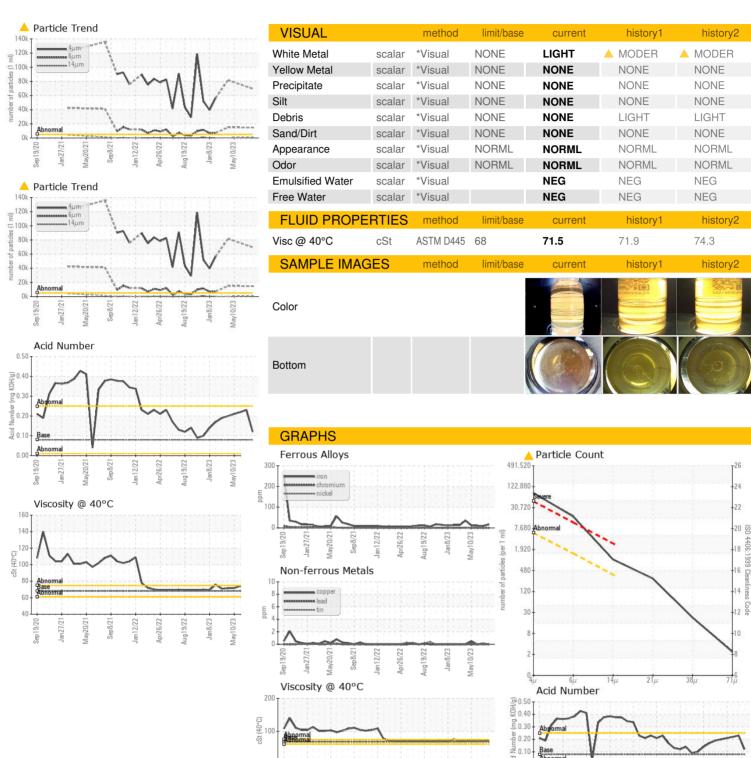
0.23

0.12

0.22



OIL ANALYSIS REPORT







Certificate L2367

Laboratory

Sample No. Lab Number **Unique Number**

: 10609526 Test Package : IND 2 (Additional Tests: PrtCount)

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : PCA0096857 : 21 Aug 2023

May10/23

: 05929579 : 23 Aug 2023 Diagnosed : Angela Borella Diagnostician

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 - Springfield - Plant 8311 PCA

2035 E BENNETT SPRINGFIELD, MO

US 65804

Contact: Service Manager