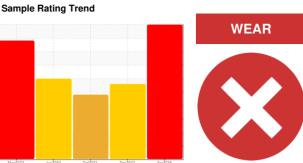


# **PROBLEM SUMMARY**

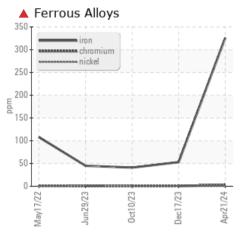


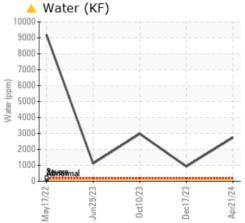
**BAGLINE KETTLE 5 - BAG** 

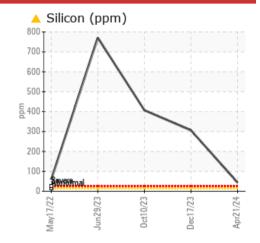
Top Refrigeration Compressor

PETRO CANADA PURITY FG SYNTH EP GEAR 220 (--- GAL)

### COMPONENT CONDITION SUMMARY







### **RECOMMENDATION**

We recommend you service the filters on this component. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample.

PROBLEMATIC TEST RESULTS										
Sample Status				SEVERE	ABNORMAL	ABNORMAL				
Iron	ppm	ASTM D5185m	>8	<b>▲</b> 326	<b>△</b> 53	<u></u> 41				
Silicon	ppm	ASTM D5185m	>15	<b>44</b>	<b>▲</b> 306	<b>4</b> 07				
Water	%	ASTM D6304	>0.01	<b>△</b> 0.274	▲ 0.093	<b>△</b> 0.298				
ppm Water	ppm	ASTM D6304	>100	<b>2740</b>	<b>930</b>	<b>2980</b>				
Debris	scalar	*Visual	NONE	▲ HEAVY	NONE	NONE				
Emulsified Water	scalar	*Visual	>0.01	<b>0.2%</b>	<b>△</b> 0.2%	<b>△</b> 0.2%				

Customer Id: KRACED Sample No.: USP0006489 Lab Number: 06156020 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

RECOMMENDED ACTIONS						
Action Inspect Wear Source	Status	Date 	Done By	<b>Description</b> We advise that you inspect for the source(s) of wear.		
Change Filter			?	We recommend you service the filters on this component.		
Resample			?	We recommend an early resample to monitor this condition.		
Alert			?	We were unable to perform a particle count due to a high concentration of particles present in this sample.		

### HISTORICAL DIAGNOSIS

## 17 Dec 2023 Diag: Doug Bogart

WATER



We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. 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. The iron level is abnormal. Appearance is milky. Elemental level of silicon (Si) above normal. There is a high amount of visible silt present in the sample. There is a light concentration of water present in the oil. The AN level is acceptable for this fluid.



#### WATER



10 Oct 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 off-line filtration to improve the cleanliness of the system fluid. There is too much water present in this sample to perform a particle count. The iron level has decreased but is still abnormal. Appearance is milky. Elemental level of silicon (Si) above normal. There is a moderate concentration of water present in the oil. The AN level is acceptable for this fluid.



#### WATER



29 Jun 2023 Diag: Doug Bogart

We advise that you perform a filter service and use off-line filtration to improve the cleanliness of the system fluid. 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. The iron level is abnormal. Appearance is hazy. Elemental level of silicon (Si) above normal. High concentration of visible dirt/debris present in the oil. There is a high amount of visible silt present in the sample. There is a light concentration of water present in the oil. The AN level is acceptable for this fluid.





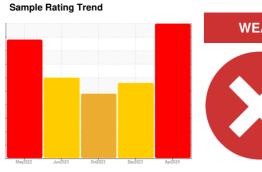
## **OIL ANALYSIS REPORT**

**BAGLINE** 

**KETTLE 5 - BAG** 

Top Refrigeration Compressor

PETRO CANADA PURITY FG SYNTH EP GEAR 220 (--- GAL)





### DIAGNOSIS

### Recommendation

We recommend you service the filters on this component. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample.

### Wear

The iron level is severe.

### Contamination

Appearance is milky. High concentration of visible dirt/debris present in the oil. There is a light concentration of water present in the oil. Elemental level of silicon (Si) above normal indicating ingress of seal material.

### **Fluid Condition**

The AN level is acceptable for this fluid.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0006489	USP0004477	USP0001360
Sample Date		Client Info		21 Apr 2024	17 Dec 2023	10 Oct 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	<b>326</b>	<b>▲</b> 53	<u>41</u>
Chromium	ppm	ASTM D5185m	>2	3	<1	<1
Nickel	ppm	ASTM D5185m		<1	<1	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>3	2	0	0
Lead	ppm	ASTM D5185m	>2	0	0	0
Copper	ppm	ASTM D5185m	>8	<1	0	0
Tin	ppm	ASTM D5185m	>4	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		<1	0	0
Manganese	ppm	ASTM D5185m		2	<1	<1
Magnesium	ppm	ASTM D5185m		1	0	2
Calcium	ppm	ASTM D5185m		5	0	2
Phosphorus	ppm	ASTM D5185m		458	354	328
Zinc	ppm	ASTM D5185m		3	0	0
Sulfur	ppm	ASTM D5185m		401	380	421
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<b>44</b>	▲ 306	<b>4</b> 07
Sodium	ppm	ASTM D5185m		4	1	2
Potassium	ppm	ASTM D5185m	>20	2	0	0
Water	%	ASTM D6304	>0.01	<u> </u>	▲ 0.093	▲ 0.298
ppm Water	ppm	ASTM D6304	>100	<b>2740</b>	<b>930</b>	<b>2980</b>
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

0.33

Acid Number (AN)

mg KOH/g ASTM D974 0.59

0.068

0.055



## **OIL ANALYSIS REPORT**







Certificate 12367

Laboratory Sample No.

Test Package : IND 2

Lab Number : 06156020 Unique Number : 10991443

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : USP0006489 Received Tested Diagnosed

: 22 Apr 2024 : 24 Apr 2024 : 24 Apr 2024 - Jonathan Hester

KraftHeinz - Cedar Rapids - Plant 8370 4601 C ST SW

CEDAR RAPIDS, IA US 52404

Contact: Service Manager

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)

T:

F: