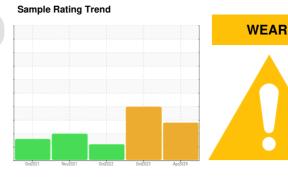


# **OIL ANALYSIS REPORT**

# BAGLINE **KETTLE 4-BAG - 11531820**

Refrigeration Compressor

PETRO CANADA PURITY FG EP GEAR OIL 220 (1 GAL)



## **DIAGNOSIS**

### Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

## Wear

The iron level is abnormal.

### Contamination

Insufficient sample was received to conduct all the routine laboratory tests. There is a high amount of particulates present in the oil.

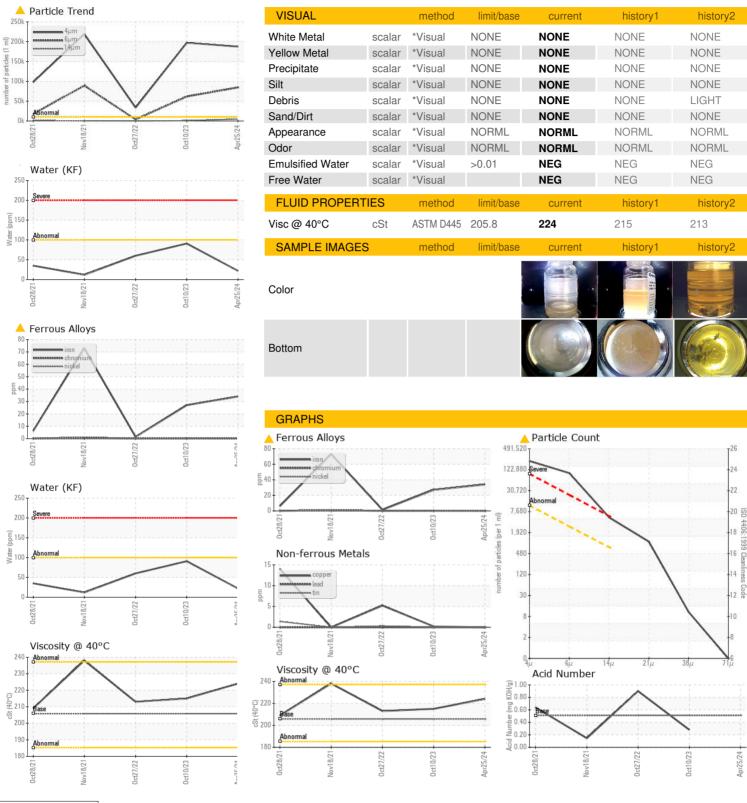
### **Fluid Condition**

The condition of the oil is acceptable for the time in service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0006688	USP0001373	USP241372
Sample Date		Client Info		25 Apr 2024	10 Oct 2023	27 Oct 2022
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				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	<b>4</b> 34	<u> </u>	1
Chromium	ppm	ASTM D5185m	>2	0	<1	0
Nickel	ppm	ASTM D5185m		0	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>3	0	0	<1
Lead	ppm	ASTM D5185m	>2	0	0	0
Copper	ppm	ASTM D5185m	>8	0	<1	5
Tin	ppm	ASTM D5185m	>4	0	0	<1
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	1
Magnesium	ppm	ASTM D5185m		0	1	0
Calcium	ppm	ASTM D5185m		0	2	0
Phosphorus	ppm	ASTM D5185m		500	416	497
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m		407	425	491
CONTAMINANTS		method	limit/base	OLUKKO 194	history1	history2
		motriod	IIIIII/Dase	current	Thotory	HISTOLYZ
	ppm	ASTM D5185m	>15	8	▲ 227	8
Silicon	ppm					
Silicon Sodium		ASTM D5185m		8	▲ 227	8
Silicon Sodium Potassium Water	ppm	ASTM D5185m ASTM D5185m	>15	8 2	▲ 227 4	8 <1
Silicon Sodium Potassium Water	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	>15	8 2 0	▲ 227 4 0	8 <1 0
Silicon Sodium Potassium Water	ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304	>15 >20 >0.01	8 2 0 0.002	227 4 0 0.009	8 <1 0 0.006
Silicon Sodium Potassium Water opm Water FLUID CLEANLIN	ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304	>15 >20 >0.01 >100	8 2 0 0.002 22	227 4 0 0.009 90.9	8 <1 0 0.006 60.1
Silicon Sodium Potassium Water opm Water FLUID CLEANLIN Particles >4µm	ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 method	>15 >20 >0.01 >100 limit/base	8 2 0 0.002 22 current	▲ 227 4 0 0.009 90.9 history1	8 <1 0 0.006 60.1 history2
Silicon Sodium Potassium Water opm Water FLUID CLEANLIN Particles >4µm Particles >6µm	ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 method ASTM D7647	>15 >20 >0.01 >100 limit/base >10000	8 2 0 0.002 22 current 187540	▲ 227 4 0 0.009 90.9 history1 ▲ 197364	8 <1 0 0.006 60.1 history2 ▲ 33537
Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 method ASTM D7647 ASTM D7647	>15 >20 >0.01 >100 limit/base >10000 >2500	8 2 0 0.002 22 current  187540 84673	▲ 227 4 0 0.009 90.9 history1 ▲ 197364 ▲ 61730	8 <1 0 0.006 60.1 history2 ▲ 33537 3856
Silicon Sodium Potassium Water ppm Water	ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 method ASTM D7647 ASTM D7647 ASTM D7647	>15 >20 >0.01 >100 limit/base >10000 >2500 >640	8 2 0 0.002 22 current  187540 84673 4582	▲ 227 4 0 0.009 90.9 history1 ▲ 197364 ▲ 61730 ▲ 808	8 <1 0 0.006 60.1 history2  ▲ 33537 3856 107
Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm	ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>15 >20 >0.01 >100 limit/base >10000 >2500 >640 >160	8 2 0 0.002 22 current  187540 84673 4582 925	▲ 227 4 0 0.009 90.9 history1 ▲ 197364 ▲ 61730 ▲ 808 116	8 <1 0 0.006 60.1 history2 ▲ 33537 3856 107 17
Silicon Sodium Potassium Water opm Water FLUID CLEANLIN Particles >4µm Particles >14µm Particles >21µm Particles >38µm	ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304  method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>15 >20 >0.01 >100 limit/base >10000 >2500 >640 >160 >40	8 2 0 0.002 22 current  187540 84673 4582 925 9	▲ 227 4 0 0.009 90.9 history1 ▲ 197364 ▲ 61730 ▲ 808 116 4	8 <1 0 0.006 60.1 history2  33537 3856 107 17 1



## **OIL ANALYSIS REPORT**





Certificate 12367

Laboratory Sample No.

Lab Number

Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : USP0006688 : 06161486 Unique Number : 10996909

Received **Tested** 

: 30 Apr 2024 Diagnosed : 30 Apr 2024 - Jonathan Hester

: 26 Apr 2024

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: