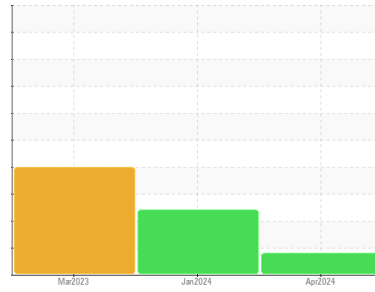




# OIL ANALYSIS REPORT

Sample Rating Trend



## CONTAMINANT



Area

[156361]

Machine Id

FPEC BLENDER 1-1

Component

Gearbox

Fluid

PETRO CANADA 220 (4 LTR)

### DIAGNOSIS

#### Recommendation

We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample.

#### Wear

All component wear rates are normal.

#### Contamination

The water content is negligible.

#### Fluid Condition

The AN level is acceptable for this fluid.

### SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0929904	WC0869275	WC0789496
Sample Date	Client Info		10 Apr 2024	04 Jan 2024	11 Mar 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			ABNORMAL	ABNORMAL	SEVERE

### WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184*		0	16	0
Iron	ppm	ASTM D5185(m) >200	22	36	49
Chromium	ppm	ASTM D5185(m) >10	0	<1	0
Nickel	ppm	ASTM D5185(m) >10	0	<1	<1
Titanium	ppm	ASTM D5185(m)	0	0	<1
Silver	ppm	ASTM D5185(m)	0	0	0
Aluminum	ppm	ASTM D5185(m) >25	<1	3	<1
Lead	ppm	ASTM D5185(m) >50	0	<1	<1
Copper	ppm	ASTM D5185(m) >200	<1	2	1
Tin	ppm	ASTM D5185(m) >10	0	0	0
Antimony	ppm	ASTM D5185(m) >5	0	0	0
Vanadium	ppm	ASTM D5185(m)	0	0	0
Beryllium	ppm	ASTM D5185(m)	0	0	0
Cadmium	ppm	ASTM D5185(m)	0	0	<1

### ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	15	7	15
Barium	ppm	ASTM D5185(m)	2	<1	<1
Molybdenum	ppm	ASTM D5185(m)	0	0	0
Manganese	ppm	ASTM D5185(m)	<1	0	<1
Magnesium	ppm	ASTM D5185(m)	2	3	2
Calcium	ppm	ASTM D5185(m)	8	9	8
Phosphorus	ppm	ASTM D5185(m)	309	135	323
Zinc	ppm	ASTM D5185(m)	15	13	23
Sulfur	ppm	ASTM D5185(m)	12522	6953	13428
Lithium	ppm	ASTM D5185(m)	2	<1	3

### CONTAMINANTS

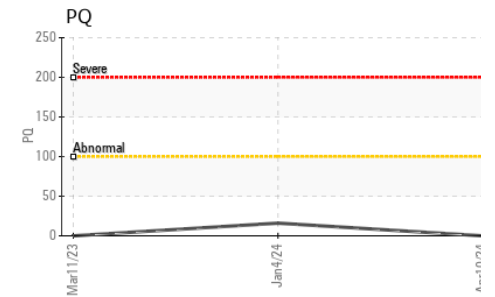
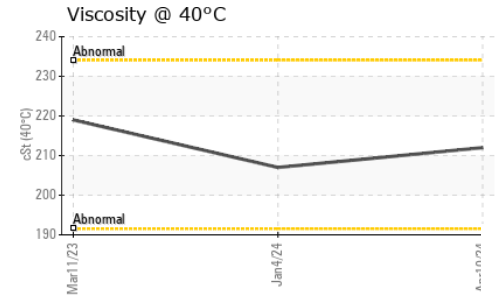
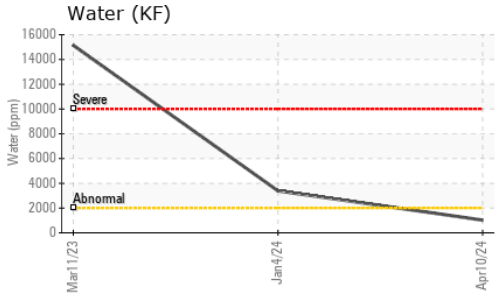
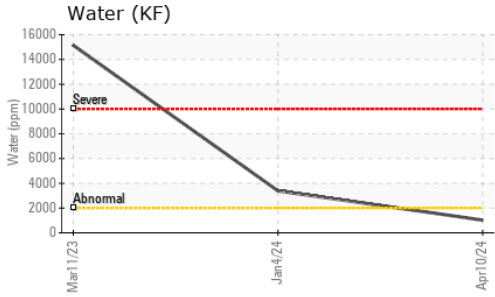
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >50	3	13	6
Sodium	ppm	ASTM D5185(m)	2	4	6
Potassium	ppm	ASTM D5185(m) >20	<1	0	5
Water	%	ASTM D6304* >0.2	0.102	▲ 0.339	▲ 1.514
ppm Water	ppm	ASTM D6304* >2000	1025	▲ 3391	▲ 15141.1

### FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.61	0.33	0.58



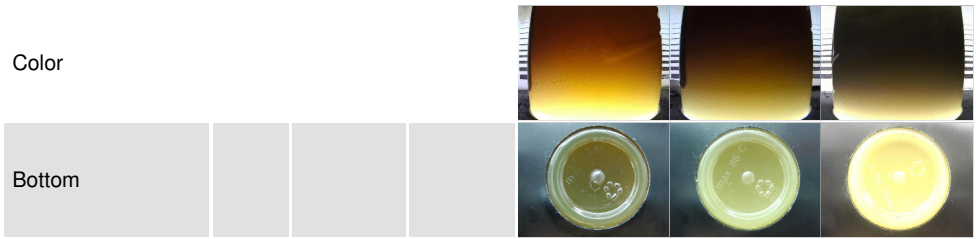
# OIL ANALYSIS REPORT



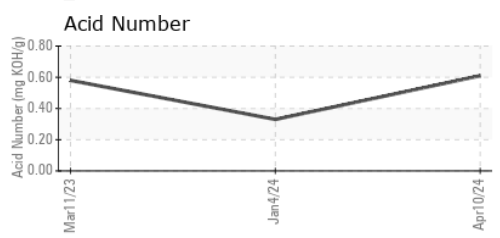
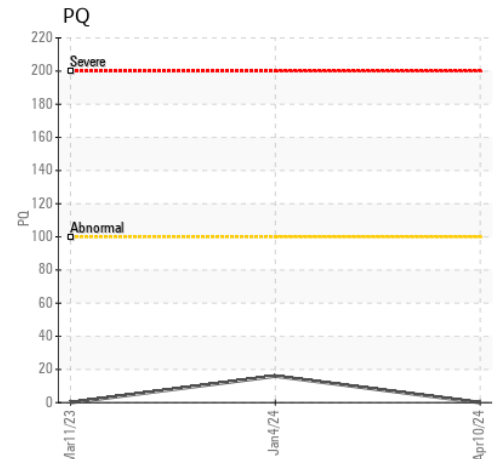
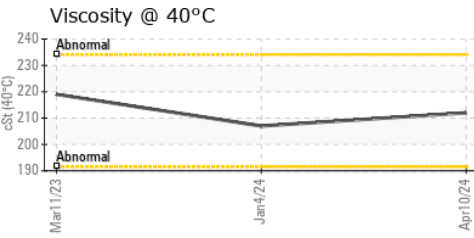
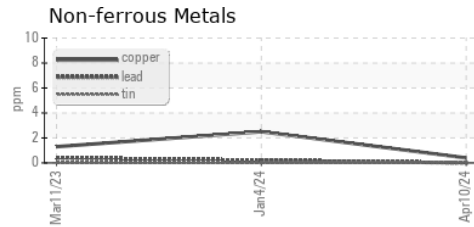
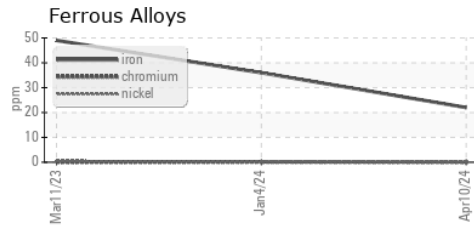
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	VLITE
Sand/Dirt	scalar	Visual*	NONE	VLITE	NONE
Appearance	scalar	Visual*	NORML	▲ HAZY	▲ HAZY
Odor	scalar	Visual*	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	NEG	▲ .2%
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	212	207	219

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0929904      **Received** : 12 Apr 2024  
**Lab Number** : 02628600      **Tested** : 15 Apr 2024  
**Unique Number** : 5761732      **Diagnosed** : 15 Apr 2024 - Kevin Marson  
**Test Package** : IND 2 ( Additional Tests: KF, TAN Man )

**GRAND RIVER FOODS**  
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 F:

To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.