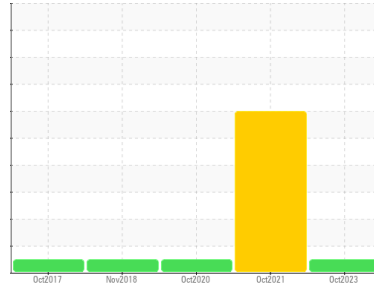




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**MX3903**

Component  
**Gearbox**  
Fluid

**PETRO CANADA PURITY FG SYNTH EP GEAR FLUID 460 (--- LTR)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.  
NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

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

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0811939</b>	WC0555371	WC0511723
Sample Date	Client Info		<b>18 Oct 2023</b>	19 Oct 2021	17 Oct 2020
Machine Age	hrs	Client Info	<b>0</b>	1	0
Oil Age	hrs	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>N/A</b>	Not Chngd	N/A
Sample Status			<b>NORMAL</b>	SEVERE	NORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184*		<b>0</b>	5	0
Iron	ppm	ASTM D5185(m) >200	<b>29</b>	694	26
Chromium	ppm	ASTM D5185(m) >15	<b>0</b>	6	0
Nickel	ppm	ASTM D5185(m) >15	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185(m) >25	<b>&lt;1</b>	3	<1
Lead	ppm	ASTM D5185(m) >100	<b>&lt;1</b>	4	<1
Copper	ppm	ASTM D5185(m) >200	<b>&lt;1</b>	74	<1
Tin	ppm	ASTM D5185(m) >25	<b>0</b>	<1	0
Antimony	ppm	ASTM D5185(m) >5	<b>0</b>	<1	0
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Beryllium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 0	<b>1</b>	95	2
Barium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	<b>0</b>	1	0
Manganese	ppm	ASTM D5185(m)	<b>&lt;1</b>	7	<1
Magnesium	ppm	ASTM D5185(m) 0	<b>2</b>	2	3
Calcium	ppm	ASTM D5185(m) 0	<b>3</b>	112	4
Phosphorus	ppm	ASTM D5185(m) 600	<b>395</b>	231	474
Zinc	ppm	ASTM D5185(m) 0	<b>6</b>	21	6
Sulfur	ppm	ASTM D5185(m) 500	<b>1659</b>	835	2038
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1

## CONTAMINANTS

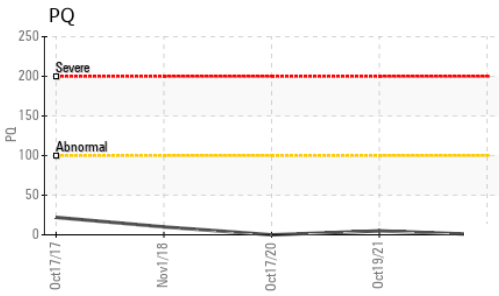
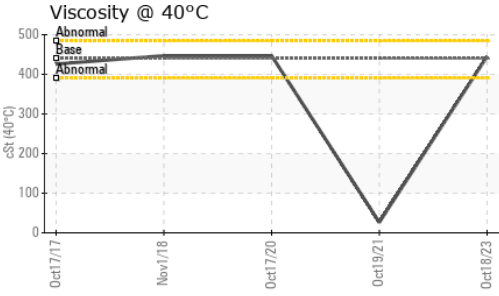
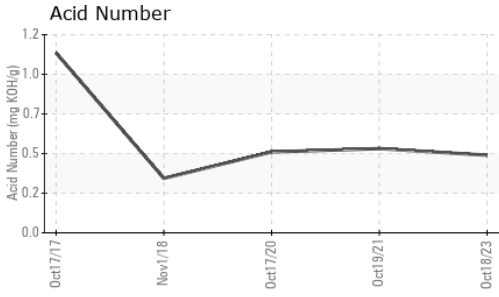
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >50	<b>21</b>	5	19
Sodium	ppm	ASTM D5185(m)	<b>&lt;1</b>	9	<1
Potassium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	<1	<1

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	<b>0.47</b>	0.51	0.49



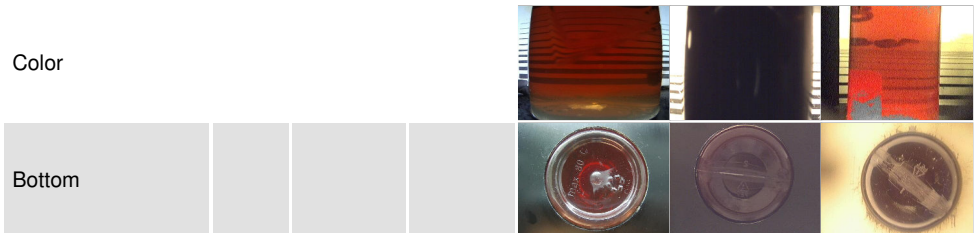
# OIL ANALYSIS REPORT



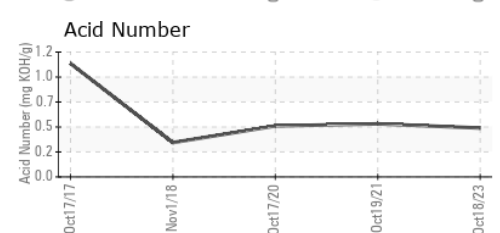
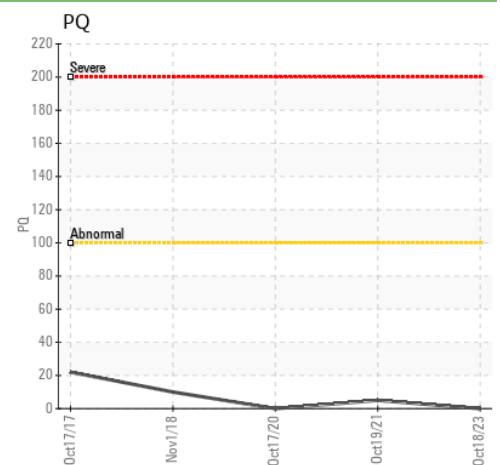
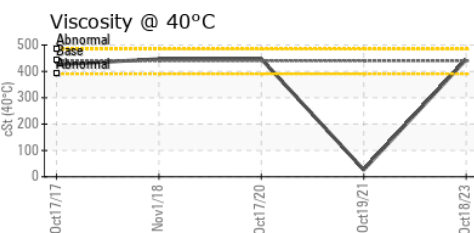
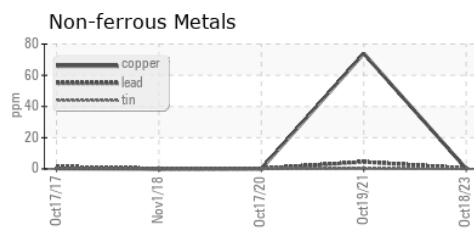
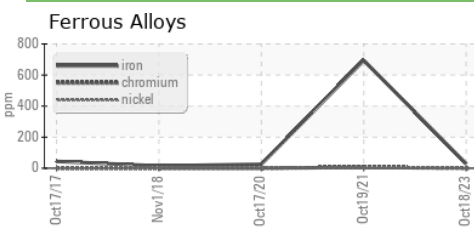
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D7279(m)	440	<b>445</b>	26.5	447

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.** : WC0811939 **Received** : 03 Jan 2024  
**Lab Number** : **02606278** **Diagnosed** : 04 Jan 2024  
**Unique Number** : 5707364 **Diagnostician** : Kevin Marson  
**Test Package** : IND 2 ( Additional Tests: TAN Man )

**Dawn Foods**  
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 Burlington, ON  
 CA L7L 4X2  
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 bosko.cenic@dawnfoods.com  
 T: (905)681-5104  
 F: (905)681-2755

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.