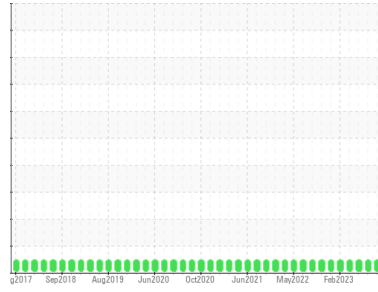




# OIL ANALYSIS REPORT

Area  
**TEAM 15**  
 Machine Id  
**156109**  
 Component  
**Gearbox**  
 Fluid  
**PETRO CANADA ENDURATEX EP 220 (2 GAL)**

Sample Rating Trend



## DIAGNOSIS

**Recommendation**  
 Resample at the next service interval to monitor.

**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>PC0080411</b>	PC0078818	PC0069898
Sample Date	Client Info	<b>03 Jul 2024</b>	05 Jun 2024	25 Oct 2023
Machine Age	mths Client Info	<b>0</b>	0	0
Oil Age	mths Client Info	<b>0</b>	0	0
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>NORMAL</b>	NORMAL	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>	---	0
Iron	ppm ASTM D5185(m) >200	<b>12</b>	81	24
Chromium	ppm ASTM D5185(m) >15	<b>0</b>	0	0
Nickel	ppm ASTM D5185(m) >15	<b>&lt;1</b>	0	<1
Titanium	ppm ASTM D5185(m)	<b>0</b>	0	0
Silver	ppm ASTM D5185(m)	<b>0</b>	0	<1
Aluminum	ppm ASTM D5185(m) >25	<b>&lt;1</b>	<1	0
Lead	ppm ASTM D5185(m) >100	<b>&lt;1</b>	0	<1
Copper	ppm ASTM D5185(m) >200	<b>&lt;1</b>	6	<1
Tin	ppm ASTM D5185(m) >25	<b>0</b>	0	0
Antimony	ppm ASTM D5185(m) >5	<b>0</b>	0	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) 60	<b>49</b>	39	43
Barium	ppm ASTM D5185(m) 0	<b>0</b>	0	<1
Molybdenum	ppm ASTM D5185(m) 0	<b>0</b>	0	0
Manganese	ppm ASTM D5185(m) 0	<b>0</b>	<1	0
Magnesium	ppm ASTM D5185(m) 0	<b>&lt;1</b>	1	<1
Calcium	ppm ASTM D5185(m) 0	<b>2</b>	2	2
Phosphorus	ppm ASTM D5185(m) 270	<b>320</b>	311	269
Zinc	ppm ASTM D5185(m) 0	<b>4</b>	10	8
Sulfur	ppm ASTM D5185(m) 11200	<b>5170</b>	5432	5105
Lithium	ppm ASTM D5185(m)	<b>&lt;1</b>	<1	<1

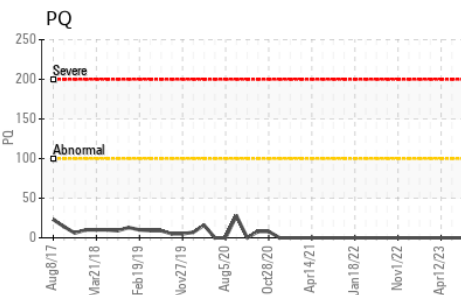
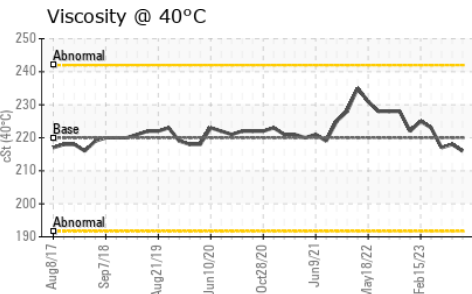
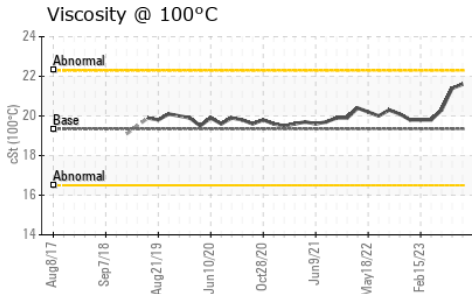
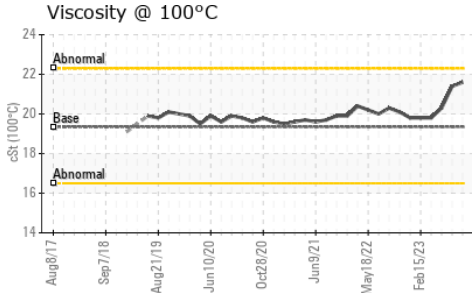
## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >50	<b>11</b>	15	11
Sodium	ppm ASTM D5185(m)	<b>&lt;1</b>	2	<1
Potassium	ppm ASTM D5185(m) >20	<b>&lt;1</b>	<1	0

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D974* 0.40	<b>0.48</b>	0.51	0.46

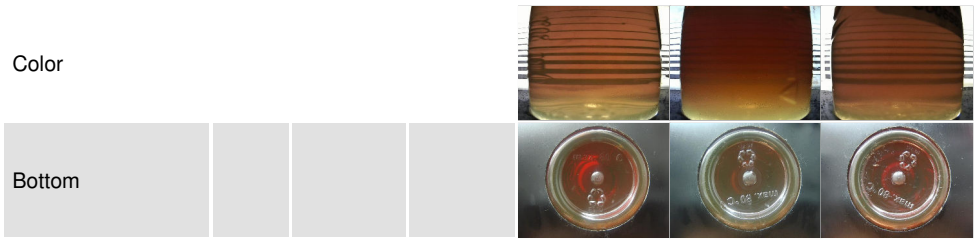
# OIL ANALYSIS REPORT



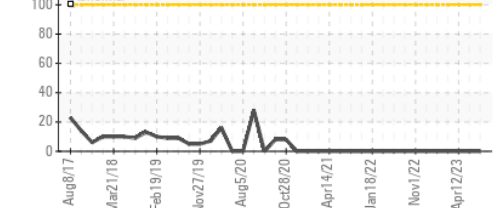
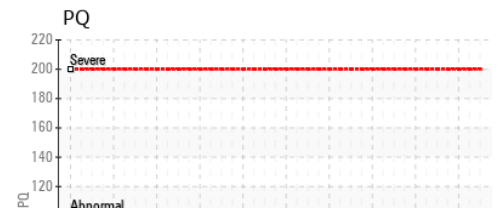
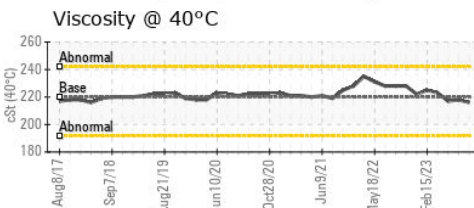
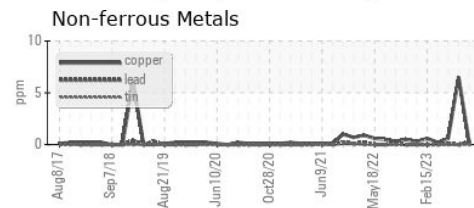
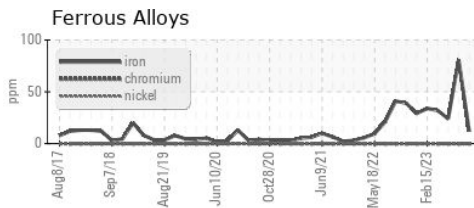
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	VLITE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	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)	220	216	218
Visc @ 100°C	cSt	ASTM D7279(m)	19.35	21.6	21.4
Viscosity Index (VI)	Scale	ASTM D2270*	99	119	117

## SAMPLE IMAGES



## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0080411 **Received** : 10 Jul 2024  
**Lab Number** : **02647227** **Tested** : 11 Jul 2024  
**Unique Number** : 5812779 **Diagnosed** : 11 Jul 2024 - Wes Davis  
**Test Package** : IND 2 ( Additional Tests: KV100, VI )

**Dryden Fibre**  
 Box 3001, 1 Duke Street  
 Dryden, ON  
 CA P8N 2Z7  
 Contact: Adebukola Adekanye  
 aadekanye@drydenfibre.ca  
 T: (807)223-9950  
 F: (807)223-9176

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.