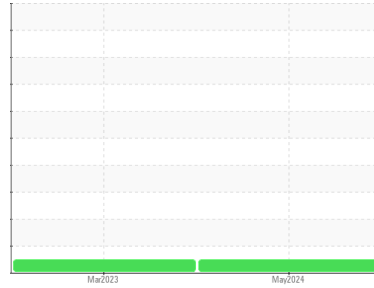


# OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id  
**CR262**  
Component  
**Right Final Drive**  
Fluid  
**PETRO CANADA ENDURATEX EP 220 (--- GAL)**

**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**  
Viscosity of sample indicates oil is within ISO 150 range, advise investigate. 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>PC0087848</b>	PC0072904	---
Sample Date	Client Info	<b>18 May 2024</b>	09 Mar 2023	---
Machine Age	hrs	<b>2948</b>	1175	---
Oil Age	hrs	<b>0</b>	1000	---
Oil Changed	Client Info	<b>Changed</b>	Changed	---
Sample Status		<b>NORMAL</b>	NORMAL	---

**CONTAMINATION** method limit/base current history1 history2

Water	WC Method	>0.2	<b>NEG</b>	NEG	---
-------	-----------	------	------------	-----	-----

**WEAR METALS** method limit/base current history1 history2

PQ		ASTM D8184*		<b>2</b>	---	---
Iron	ppm	ASTM D5185(m)	>500	<b>11</b>	8	---
Chromium	ppm	ASTM D5185(m)	>10	<b>0</b>	0	---
Nickel	ppm	ASTM D5185(m)	>10	<b>0</b>	<1	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	<1	---
Silver	ppm	ASTM D5185(m)		<b>0</b>	0	---
Aluminum	ppm	ASTM D5185(m)	>25	<b>&lt;1</b>	<1	---
Lead	ppm	ASTM D5185(m)	>25	<b>0</b>	0	---
Copper	ppm	ASTM D5185(m)	>50	<b>2</b>	1	---
Tin	ppm	ASTM D5185(m)	>10	<b>0</b>	0	---
Antimony	ppm	ASTM D5185(m)	>5	<b>0</b>	0	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	0	---

**ADDITIVES** method limit/base current history1 history2

Boron	ppm	ASTM D5185(m)	60	<b>77</b>	70	---
Barium	ppm	ASTM D5185(m)	0	<b>4</b>	2	---
Molybdenum	ppm	ASTM D5185(m)	0	<b>0</b>	<1	---
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185(m)	0	<b>10</b>	10	---
Calcium	ppm	ASTM D5185(m)	0	<b>13</b>	11	---
Phosphorus	ppm	ASTM D5185(m)	270	<b>646</b>	665	---
Zinc	ppm	ASTM D5185(m)	0	<b>17</b>	13	---
Sulfur	ppm	ASTM D5185(m)	11200	<b>9083</b>	8276	---
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	---

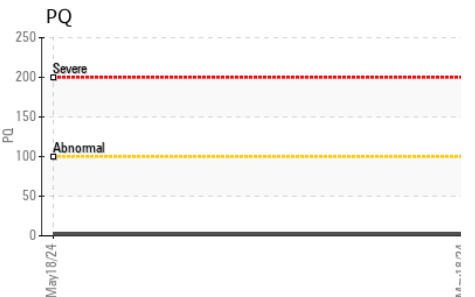
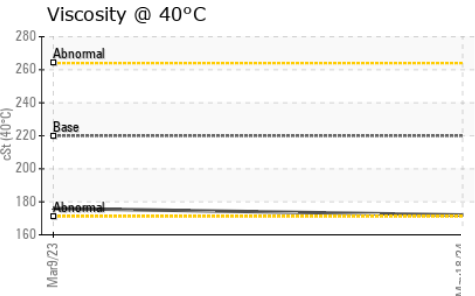
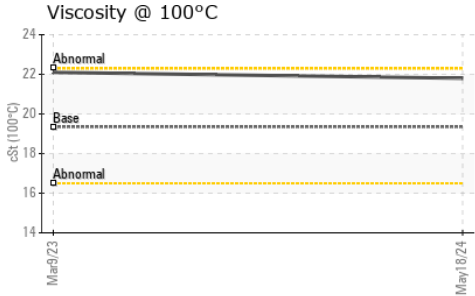
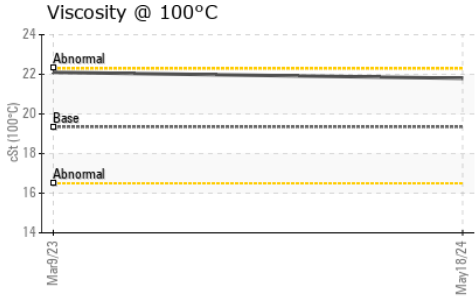
**CONTAMINANTS** method limit/base current history1 history2

Silicon	ppm	ASTM D5185(m)	>75	<b>0</b>	<1	---
Sodium	ppm	ASTM D5185(m)		<b>5</b>	4	---
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	1	---

**FLUID DEGRADATION** method limit/base current history1 history2

Acid Number (AN)	mg KOH/g	ASTM D974*	0.40	<b>1.14</b>	---	---
------------------	----------	------------	------	-------------	-----	-----

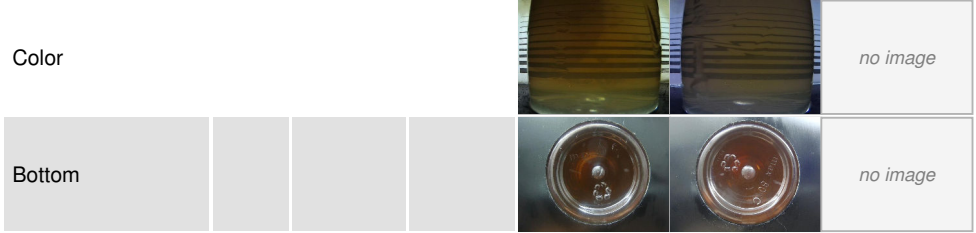
# OIL ANALYSIS REPORT



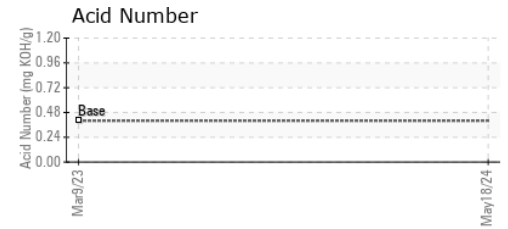
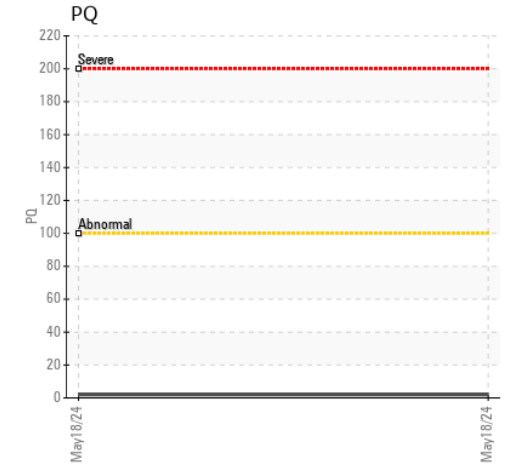
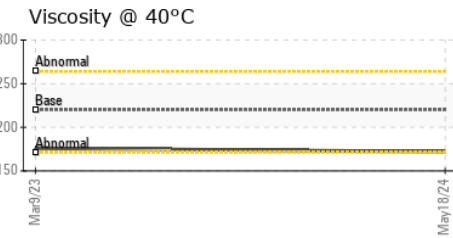
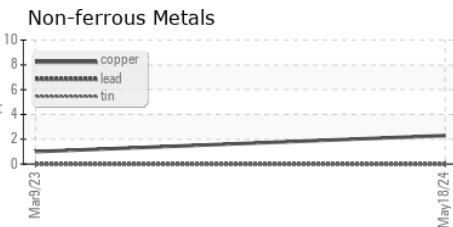
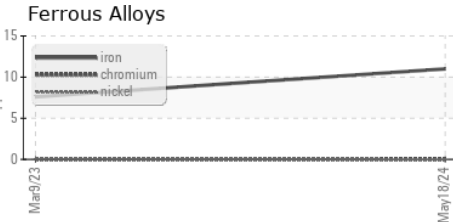
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	---
Silt	scalar	Visual*	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---
Appearance	scalar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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D2729(m)	220	172	---
Visc @ 100°C	cSt	ASTM D2729(m)	19.35	21.8	---
Viscosity Index (VI)	Scale	ASTM D2270*	99	151	---

## SAMPLE IMAGES



## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Green Infrastructure and Partners Inc (GPI) - 286 - Shoring & Foundations  
**Sample No.** : PC0087848 **Received** : 28 May 2024 151 Ram Forest Rd,  
**Lab Number** : 02638239 **Tested** : 30 May 2024 Stouffville, ON  
**Unique Number** : 5787401 **Diagnosed** : 30 May 2024 - Kevin Marson CA L4A 2G8  
**Test Package** : IND 2 ( Additional Tests: KV100, TAN Man, VI ) Contact: Shannon Abbott  
 sabbott@gipi.com

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.