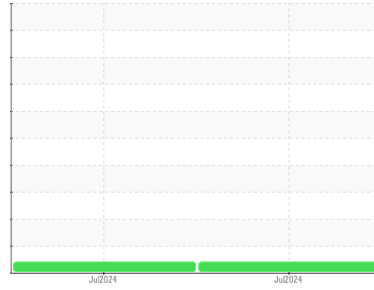




# OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



Machine Id

**AUSTIN M (S/N 025088)**

Component

**Rear Gearbox**

Fluid

**PETRO CANADA ENDURATEX EP 220 (24 LTR)**

## DIAGNOSIS

### Recommendation

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. The fluid was specified as PETRO CANADA ENDURATEX EP 220, however, a fluid match indicates that this fluid is SAE 90 Gear Oil. Please confirm the oil type and grade on your 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 SAE 90 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. 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>WC0958295</b>	WC0958294	---
Sample Date	Client Info		<b>04 Jul 2024</b>	04 Jul 2024	---
Machine Age	hrs	Client Info	<b>0</b>	0	---
Oil Age	hrs	Client Info	<b>0</b>	0	---
Oil Changed	Client Info		<b>N/A</b>	N/A	---
Sample Status			<b>ABNORMAL</b>	ABNORMAL	---

## 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>9</b>	38	---
Iron	ppm	ASTM D5185(m) >200	<b>53</b>	98	---
Chromium	ppm	ASTM D5185(m) >15	<b>1</b>	2	---
Nickel	ppm	ASTM D5185(m) >15	<b>&lt;1</b>	<1	---
Titanium	ppm	ASTM D5185(m)	<b>0</b>	0	---
Silver	ppm	ASTM D5185(m)	<b>&lt;1</b>	0	---
Aluminum	ppm	ASTM D5185(m) >25	<b>&lt;1</b>	<1	---
Lead	ppm	ASTM D5185(m) >100	<b>8</b>	4	---
Copper	ppm	ASTM D5185(m) >200	<b>&lt;1</b>	1	---
Tin	ppm	ASTM D5185(m) >25	<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>167</b>	25	---
Barium	ppm	ASTM D5185(m) 0	<b>2</b>	5	---
Molybdenum	ppm	ASTM D5185(m) 0	<b>&lt;1</b>	0	---
Manganese	ppm	ASTM D5185(m) 0	<b>1</b>	2	---
Magnesium	ppm	ASTM D5185(m) 0	<b>6</b>	2	---
Calcium	ppm	ASTM D5185(m) 0	<b>25</b>	11	---
Phosphorus	ppm	ASTM D5185(m) 270	<b>945</b>	276	---
Zinc	ppm	ASTM D5185(m) 0	<b>24</b>	19	---
Sulfur	ppm	ASTM D5185(m) 11200	<b>16014</b>	6099	---
Lithium	ppm	ASTM D5185(m)	<b>5</b>	3	---

## CONTAMINANTS

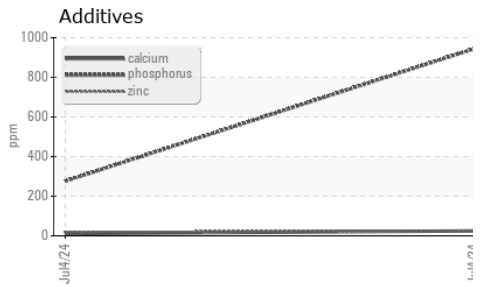
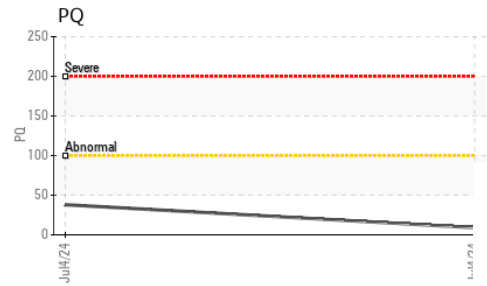
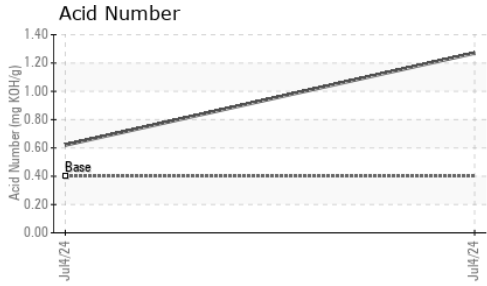
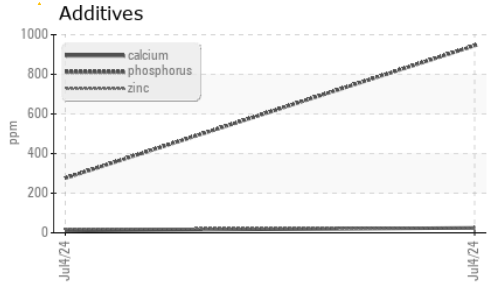
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >50	<b>5</b>	8	---
Sodium	ppm	ASTM D5185(m)	<b>1</b>	1	---
Potassium	ppm	ASTM D5185(m) >20	<b>3</b>	2	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974* 0.40	<b>1.27</b>	0.62	---



# OIL ANALYSIS REPORT



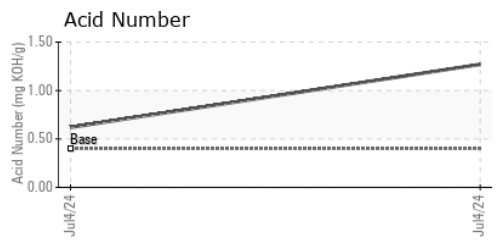
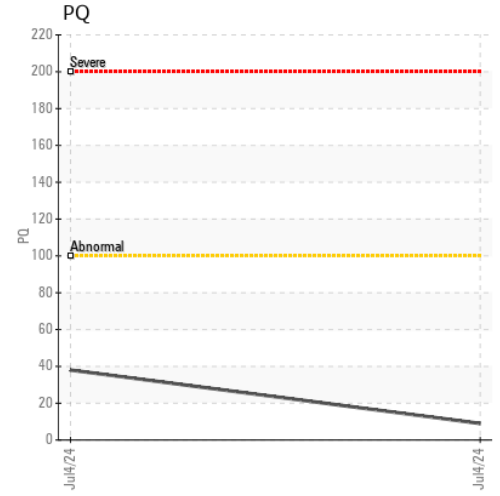
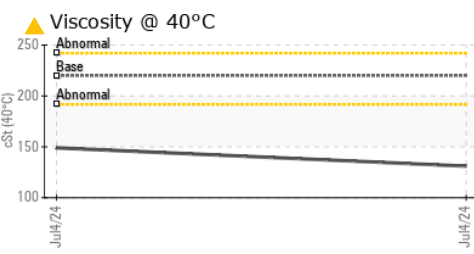
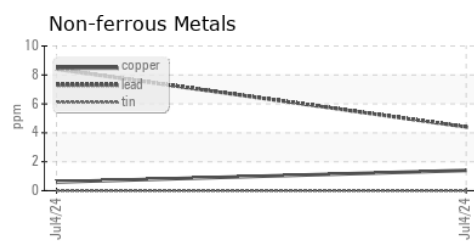
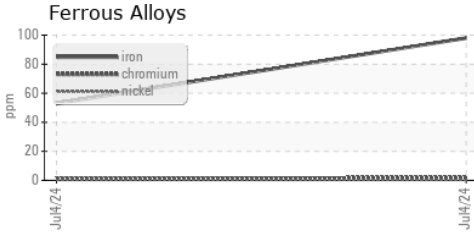
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	VLITE	LIGHT
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	VLITE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	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 ▲ 131	▲ 149	---

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.** : WC0958295      **Received** : 10 Jul 2024  
**Lab Number** : **02647218**      **Tested** : 11 Jul 2024  
**Unique Number** : 5812770      **Diagnosed** : 11 Jul 2024 - Kevin Marson  
**Test Package** : IND 2 ( Additional Tests: TAN Man )

**JAYLOR FABRICATING**  
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 IRadistic@jaylor.com  
 T: (519)787-9353  
 F: (519)787-0471

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.