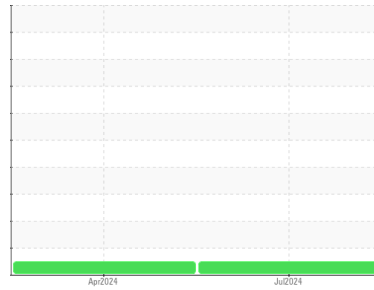


# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Machine Id

**L-58**

Component

**Rear Differential**

Fluid

**PETRO CANADA PRODURO TO-4 SAE 30 (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. ( Customer Sample Comment: Axle high temperature code changed fluid )

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

Confirm oil type. 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>PCA0128755</b>	PCA0118464	---
Sample Date	Client Info		<b>08 Jul 2024</b>	25 Apr 2024	---
Machine Age	hrs	Client Info	<b>12340</b>	11971	---
Oil Age	hrs	Client Info	<b>12340</b>	500	---
Oil Changed	Client Info		<b>Changed</b>	Not Changd	---
Sample Status			<b>NORMAL</b>	NORMAL	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>.2	<b>NEG</b>	NEG	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >500	<b>138</b>	98	---
Chromium	ppm	ASTM D5185m >10	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185m >10	<b>0</b>	0	---
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m >25	<b>3</b>	2	---
Lead	ppm	ASTM D5185m >25	<b>0</b>	0	---
Copper	ppm	ASTM D5185m >100	<b>8</b>	7	---
Tin	ppm	ASTM D5185m >10	<b>&lt;1</b>	<1	---
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	---
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 2	<b>8</b>	8	---
Barium	ppm	ASTM D5185m 0	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m 0	<b>10</b>	6	---
Manganese	ppm	ASTM D5185m 9	<b>2</b>	2	---
Magnesium	ppm	ASTM D5185m 1	<b>12</b>	14	---
Calcium	ppm	ASTM D5185m 3131	<b>2971</b>	2860	---
Phosphorus	ppm	ASTM D5185m 1194	<b>1058</b>	1035	---
Zinc	ppm	ASTM D5185m 1281	<b>1260</b>	1187	---
Sulfur	ppm	ASTM D5185m 3811	<b>7208</b>	6714	---

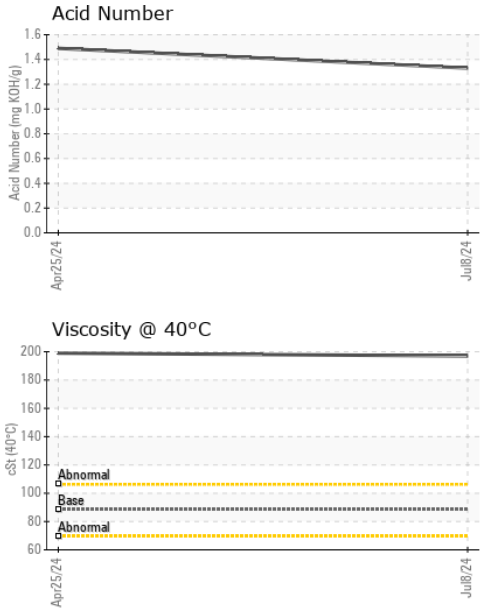
## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >75	<b>11</b>	8	---
Sodium	ppm	ASTM D5185m	<b>2</b>	1	---
Potassium	ppm	ASTM D5185m >20	<b>2</b>	<1	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>1.33</b>	1.49	---

# OIL ANALYSIS REPORT

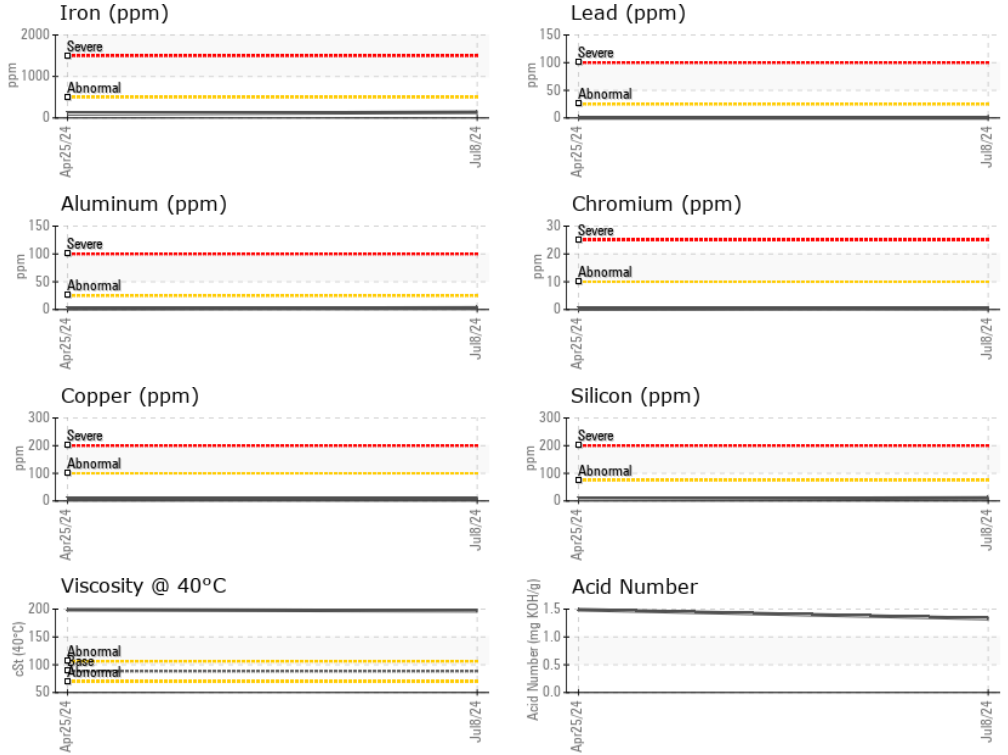


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar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

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	88.5	<b>197</b>	199	---

SAMPLE IMAGES	method	limit/base	current	history1	history2	
Color				no image	no image	no image
Bottom				no image	no image	no image

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0128755      **Received** : 12 Jul 2024  
**Lab Number** : **06235101**      **Tested** : 15 Jul 2024  
**Unique Number** : 11123935      **Diagnosed** : 15 Jul 2024 - Don Baldrige  
**Test Package** : MOB 2

**SCRAP METAL SERVICES (SMS Mill Services LLC)**  
 1500 COMMERCIAL AVE  
 MINGO JUNCTION, OH  
 US 43938  
 Contact: TIM RANDOLPH  
 trandolph@scrapmetalservices.com

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)