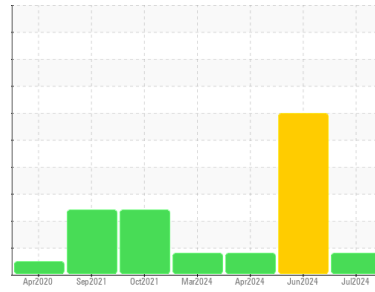


# OIL ANALYSIS REPORT

## Sample Rating Trend



**WEAR**



Machine Id  
**L-56**  
 Component  
**Front Right Final Drive**

Fluid  
**PETRO CANADA PRODURO TO-4 SAE 50 (--- GAL)**

## DIAGNOSIS

### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

### Wear

The iron level has decreased, but is still abnormal. Gear wear is indicated.

### 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 acceptable for the time in service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>PCA0128760</b>	PCA0128795	PCA0118473
Sample Date	Client Info		<b>09 Jul 2024</b>	27 Jun 2024	30 Apr 2024
Machine Age	hrs	Client Info	<b>18037</b>	17836	16917
Oil Age	hrs	Client Info	<b>500</b>	500	500
Oil Changed	Client Info		<b>Not Chngd</b>	Not Chngd	Not Chngd
Sample Status			<b>ABNORMAL</b>	SEVERE	ABNORMAL

## 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
Iron	ppm	ASTM D5185m >500	<b>▲ 1424</b>	▲ 1623	▲ 1364
Chromium	ppm	ASTM D5185m >10	<b>4</b>	4	3
Nickel	ppm	ASTM D5185m >10	<b>1</b>	2	0
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	1	<1
Silver	ppm	ASTM D5185m	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >25	<b>29</b>	32	23
Lead	ppm	ASTM D5185m >25	<b>0</b>	0	0
Copper	ppm	ASTM D5185m >50	<b>17</b>	14	12
Tin	ppm	ASTM D5185m >10	<b>0</b>	<1	0
Vanadium	ppm	ASTM D5185m	<b>0</b>	<1	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	<1	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 2	<b>227</b>	210	239
Barium	ppm	ASTM D5185m 0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m 0	<b>&lt;1</b>	0	0
Manganese	ppm	ASTM D5185m 0	<b>19</b>	24	20
Magnesium	ppm	ASTM D5185m 9	<b>37</b>	44	35
Calcium	ppm	ASTM D5185m 3114	<b>279</b>	244	404
Phosphorus	ppm	ASTM D5185m 1099	<b>938</b>	1044	976
Zinc	ppm	ASTM D5185m 1245	<b>58</b>	37	111
Sulfur	ppm	ASTM D5185m 7086	<b>17433</b>	22594	20036

## CONTAMINANTS

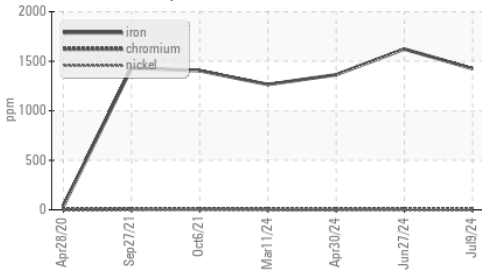
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >75	<b>39</b>	43	30
Sodium	ppm	ASTM D5185m	<b>0</b>	2	<1
Potassium	ppm	ASTM D5185m >20	<b>&lt;1</b>	<1	0

## FLUID DEGRADATION

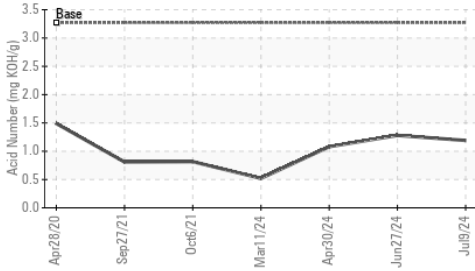
	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 3.27	<b>1.19</b>	1.28	1.08

# OIL ANALYSIS REPORT

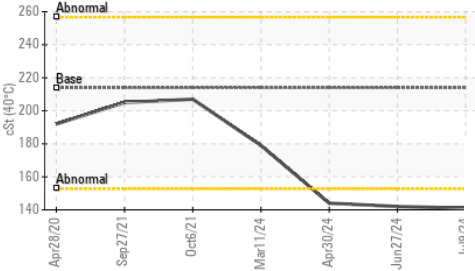
## ▲ Ferrous Alloys



## Acid Number



## Viscosity @ 40°C



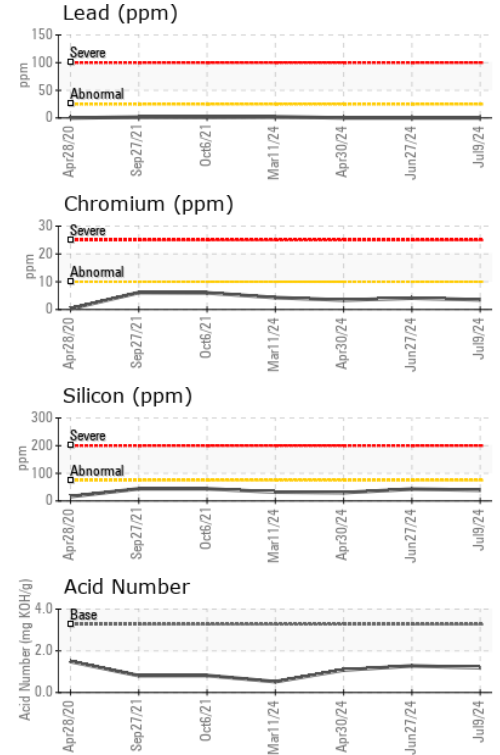
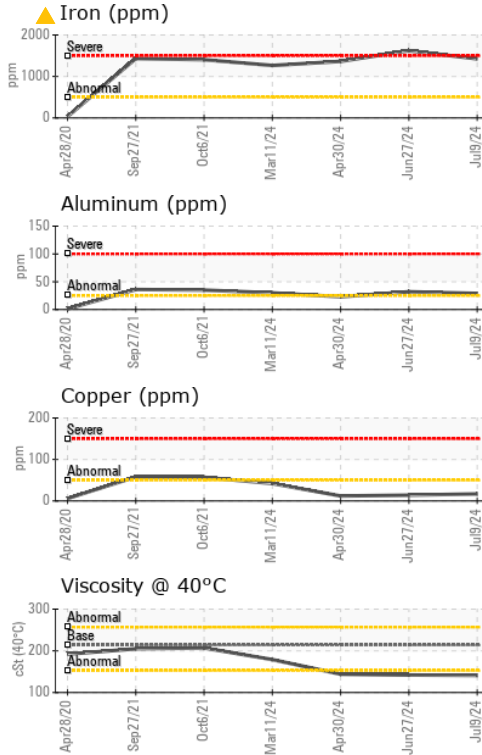
PARAMETER	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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

PARAMETER	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	213.9	141	142

## SAMPLE IMAGES

PARAMETER	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513

**Sample No.** : PCA0128760

**Lab Number** : 06237129

**Unique Number** : 11125963

**Test Package** : MOB 2

**Received** : 15 Jul 2024

**Tested** : 17 Jul 2024

**Diagnosed** : 17 Jul 2024 - Don Baldrige

**SCRAP METAL SERVICES (SMS Mill Services LLC)**

1500 COMMERCIAL AVE

MINGO JUNCTION, OH

US 43938

Contact: STAN MANN

smann@scrapmetalservices.com

T:

F:

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)