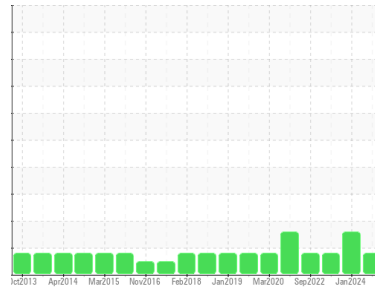


# OIL ANALYSIS REPORT

Sample Rating Trend



**WEAR**



Area

**LINE 6 [910094671]**

Machine Id

**[LINE 6] L6 WRAPPER 17 L6 WRAPPER 17**

Component

**Gearbox**

Fluid

**PETRO CANADA ENDURATEX SYNTHETIC EP 220 (--- GAL)**

## DIAGNOSIS

### Recommendation

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

### Wear

The aluminum level is abnormal. All other component wear rates are normal.

### Contamination

Appearance is milky. 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>PCA0122332</b>	PCA0111062	PCA0093737
Sample Date	Client Info		<b>11 Apr 2024</b>	29 Jan 2024	05 Jul 2023
Machine Age	hrs	Client Info	<b>0</b>	0	0
Oil Age	hrs	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>N/A</b>	N/A	N/A
Sample Status			<b>ABNORMAL</b>	ABNORMAL	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
PQ	ASTM D8184		<b>39</b>	50	46
Iron	ppm	ASTM D5185m >200	<b>50</b>	47	52
Chromium	ppm	ASTM D5185m >15	<b>1</b>	<1	<1
Nickel	ppm	ASTM D5185m >15	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m >25	<b>▲ 288</b>	▲ 270	▲ 239
Lead	ppm	ASTM D5185m >100	<b>2</b>	1	0
Copper	ppm	ASTM D5185m >200	<b>5</b>	4	4
Tin	ppm	ASTM D5185m >25	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	<1
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 33	<b>0</b>	0	0
Barium	ppm	ASTM D5185m 5	<b>14</b>	18	11
Molybdenum	ppm	ASTM D5185m	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185m 5	<b>7</b>	6	8
Calcium	ppm	ASTM D5185m 5	<b>3964</b>	3498	3456
Phosphorus	ppm	ASTM D5185m 437	<b>593</b>	543	622
Zinc	ppm	ASTM D5185m 5	<b>1705</b>	1611	1443
Sulfur	ppm	ASTM D5185m 5000	<b>1732</b>	1452	1666

## CONTAMINANTS

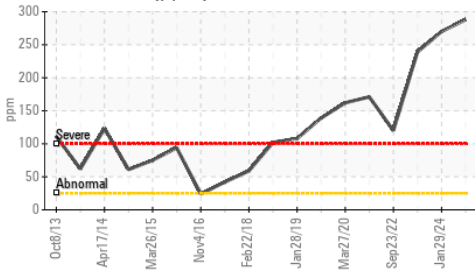
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	<b>33</b>	32	33
Sodium	ppm	ASTM D5185m	<b>4</b>	<1	4
Potassium	ppm	ASTM D5185m >20	<b>3</b>	2	0

## FLUID DEGRADATION

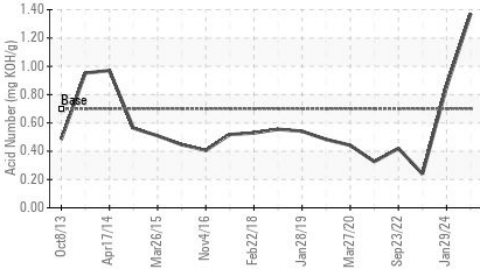
	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.7	<b>1.37</b>	0.852	0.24

# OIL ANALYSIS REPORT

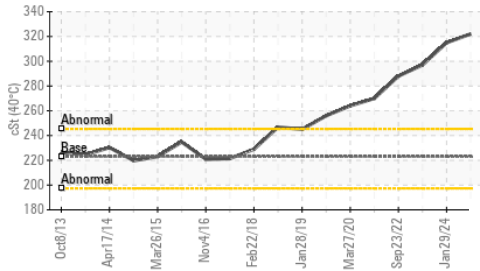
## ▲ Aluminum (ppm)



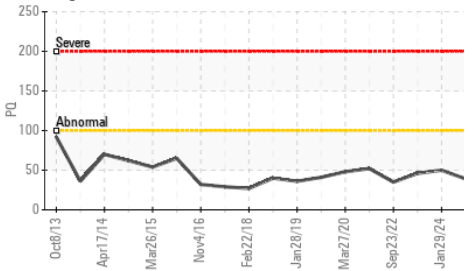
## Acid Number



## Viscosity @ 40°C



## PQ

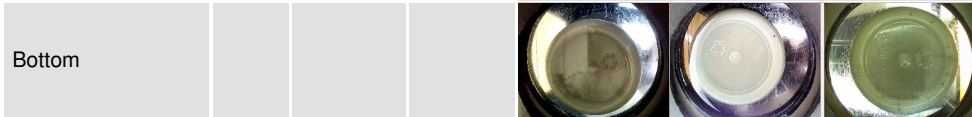


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	MILKY	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 D445	223	322	315

SAMPLE IMAGES	method	limit/base	current	history1	history2
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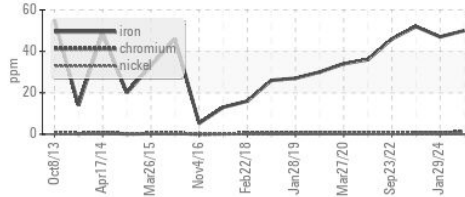
## Color



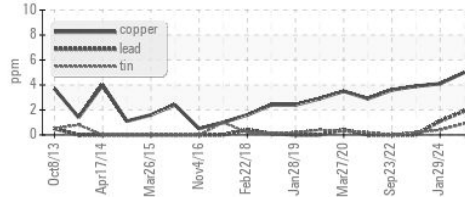
## Bottom

## GRAPHS

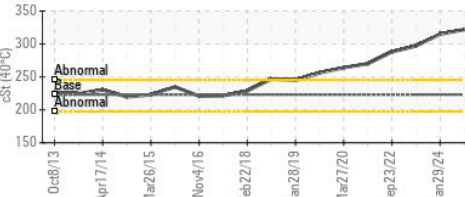
### Ferrous Alloys



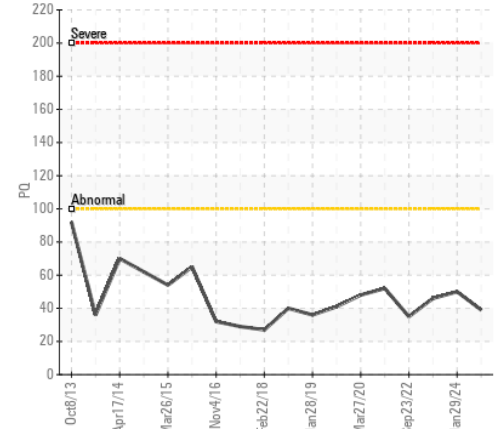
### Non-ferrous Metals



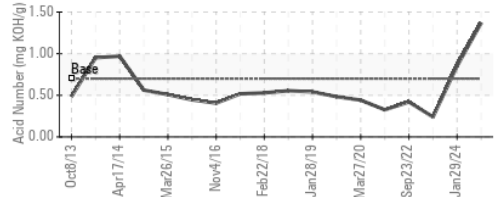
### Viscosity @ 40°C



### PQ



### Acid Number



Certificate L2367

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

**Sample No.** : PCA0122332

**Lab Number** : 06154584

**Unique Number** : 10990007

**Test Package** : IND 2 ( Additional Tests: PQ )

**Received** : 19 Apr 2024

**Tested** : 22 Apr 2024

**Diagnosed** : 23 Apr 2024 - Don Baldrige

**THE HERSHEY COMPANY**

WEST HERSHEY - TECHNICAL ASSURANCE, 1033 OLDE WEST CHOCOLATE

HERSHEY, PA

US 17033

Contact: CLINTON ZOHNER

clintzohner@hersheys.com

T: (717)374-4846

F: (717)374-4594

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)