

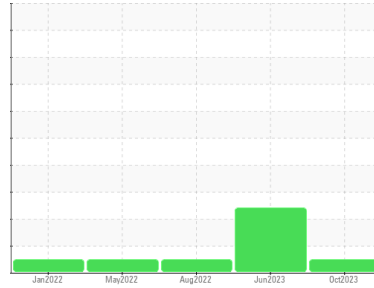
# OIL ANALYSIS REPORT

## Sample Rating Trend

**NORMAL**



Area  
**KEMP QUARRIES / KEMP STONE - FAIRLAND [66993]**  
 Machine Id  
**OHT123**  
 Component  
**Rear Differential**  
 Fluid  
**PETRO CANADA PRODURO TO-4 SAE 50 (--- GAL)**



## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. ( Customer Sample Comment: PM-4 changed fluid )

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

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>PCA0084735</b>	PCA0086311	PCA0062457
Sample Date	Client Info		<b>02 Oct 2023</b>	21 Jun 2023	31 Aug 2022
Machine Age	hrs	Client Info	<b>37517</b>	37279	36774
Oil Age	hrs	Client Info	<b>37517</b>	37279	36774
Oil Changed	Client Info		<b>Changed</b>	N/A	N/A
Sample Status			<b>NORMAL</b>	ATTENTION	NORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >500	<b>63</b>	27	43
Chromium	ppm	ASTM D5185m >10	<b>3</b>	0	<1
Nickel	ppm	ASTM D5185m >10	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185m	<b>1</b>	1	<1
Silver	ppm	ASTM D5185m	<b>0</b>	0	1
Aluminum	ppm	ASTM D5185m >25	<b>5</b>	<1	2
Lead	ppm	ASTM D5185m >25	<b>2</b>	0	1
Copper	ppm	ASTM D5185m >100	<b>31</b>	10	4
Tin	ppm	ASTM D5185m >10	<b>1</b>	<1	<1
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	<1

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 2	<b>2</b>	<1	3
Barium	ppm	ASTM D5185m 0	<b>0</b>	14	0
Molybdenum	ppm	ASTM D5185m 0	<b>2</b>	2	<1
Manganese	ppm	ASTM D5185m 0	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m 9	<b>18</b>	32	18
Calcium	ppm	ASTM D5185m 3114	<b>3214</b>	3232	2462
Phosphorus	ppm	ASTM D5185m 1099	<b>857</b>	944	847
Zinc	ppm	ASTM D5185m 1245	<b>1160</b>	1213	1081
Sulfur	ppm	ASTM D5185m 7086	<b>4752</b>	5210	4273

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >75	<b>66</b>	44	12
Sodium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	0
Potassium	ppm	ASTM D5185m >20	<b>3</b>	<1	0

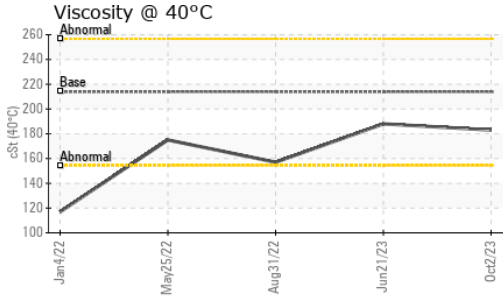
## VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual NORML	<b>NORML</b>	▲ HAZY	NORML
Odor	scalar	*Visual NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual >.2	<b>NEG</b>	0.2%	NEG
Free Water	scalar	*Visual	<b>NEG</b>	NEG	NEG

## FLUID PROPERTIES

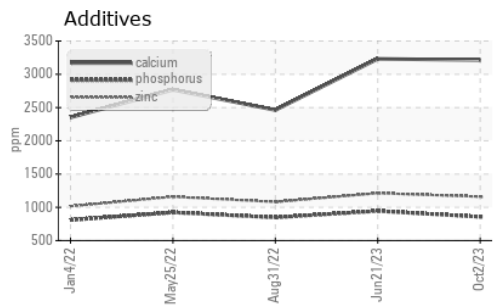
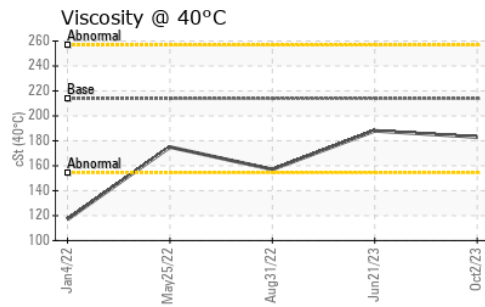
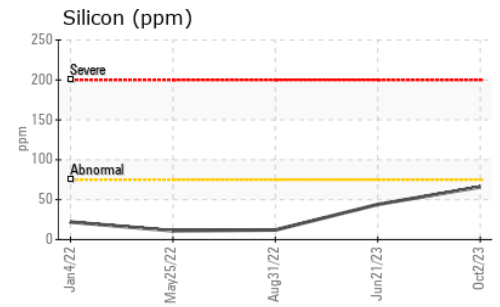
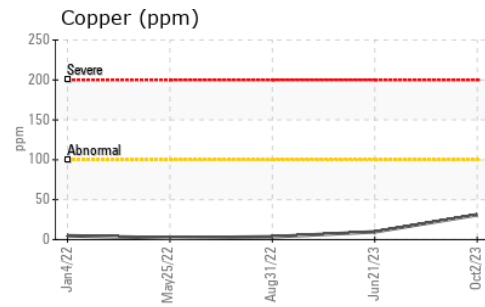
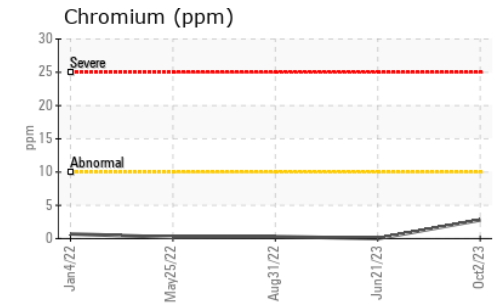
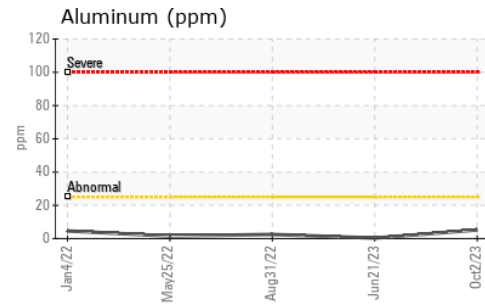
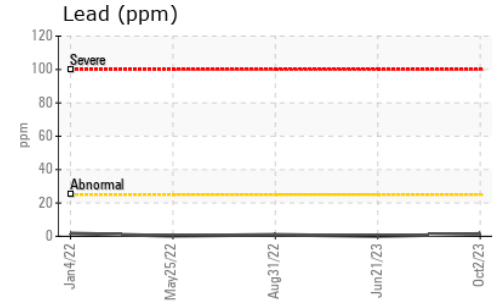
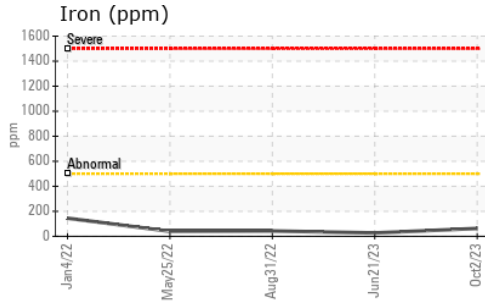
	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 213.9	<b>183</b>	188	157

# OIL ANALYSIS REPORT



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

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0084735 **Received** : 16 Oct 2023  
**Lab Number** : 05980741 **Diagnosed** : 18 Oct 2023  
**Unique Number** : 10698036 **Diagnostician** : Sean Felton  
**Test Package** : MOB 1

**Kemp Quarries - Kemp Stone - Fairland**  
 18350 S 590 Rd  
 Fairland, OK  
 US 74343  
 Contact:

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)

fairland@kempstone.com

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F: