

# OIL ANALYSIS REPORT

Sample Rating Trend

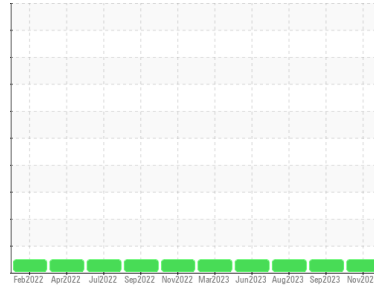
**NORMAL**



Area  
**[67470]**  
Machine Id  
**WL149**

Component  
**Front Differential**  
Fluid

**PETRO CANADA DURATRAN ALL-SEASON (--- GAL)**



## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. ( Customer Sample Comment: Pm1 performed. All oil samples taken. Engine oil, engine oil filters, fuel filters, air, and cabin air filters changed. )

### 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>PCA0084341</b>	PCA0084276	PCA0084053
Sample Date	Client Info	<b>28 Nov 2023</b>	22 Sep 2023	01 Aug 2023
Machine Age	hrs	<b>9324</b>	8861	8481
Oil Age	hrs	<b>463</b>	1977	1597
Oil Changed	Client Info	<b>Oil Added</b>	Changed	Oil Added
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL

## CONTAMINATION

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

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >500	<b>13</b>	32	27
Chromium	ppm ASTM D5185m >10	<b>&lt;1</b>	<1	<1
Nickel	ppm ASTM D5185m >10	<b>&lt;1</b>	0	0
Titanium	ppm ASTM D5185m	<b>&lt;1</b>	0	0
Silver	ppm ASTM D5185m	<b>0</b>	0	0
Aluminum	ppm ASTM D5185m >25	<b>3</b>	0	4
Lead	ppm ASTM D5185m >25	<b>&lt;1</b>	<1	0
Copper	ppm ASTM D5185m >100	<b>&lt;1</b>	0	0
Tin	ppm ASTM D5185m >10	<b>&lt;1</b>	0	<1
Vanadium	ppm ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm ASTM D5185m	<b>&lt;1</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	<b>112</b>	119	123
Barium	ppm ASTM D5185m	<b>8</b>	0	0
Molybdenum	ppm ASTM D5185m	<b>2</b>	<1	0
Manganese	ppm ASTM D5185m	<b>&lt;1</b>	<1	<1
Magnesium	ppm ASTM D5185m	<b>30</b>	28	25
Calcium	ppm ASTM D5185m	<b>3573</b>	3373	3727
Phosphorus	ppm ASTM D5185m	<b>1248</b>	1104	1176
Zinc	ppm ASTM D5185m	<b>1449</b>	1389	1466
Sulfur	ppm ASTM D5185m	<b>3710</b>	3362	4161

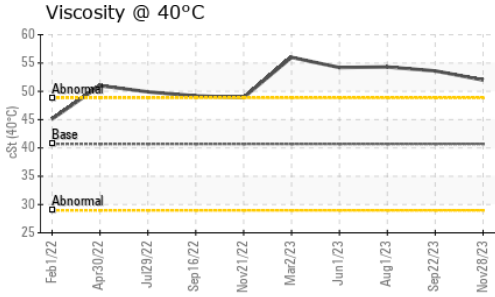
## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >75	<b>12</b>	13	13
Sodium	ppm ASTM D5185m	<b>0</b>	1	1
Potassium	ppm ASTM D5185m >20	<b>2</b>	0	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>	NORML	NORML
Odor	scalar *Visual NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar *Visual >.2	<b>NEG</b>	NEG	NEG
Free Water	scalar *Visual	<b>NEG</b>	NEG	NEG

# OIL ANALYSIS REPORT

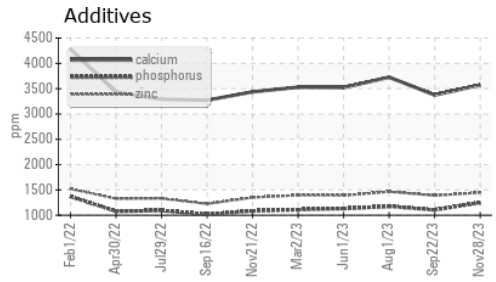
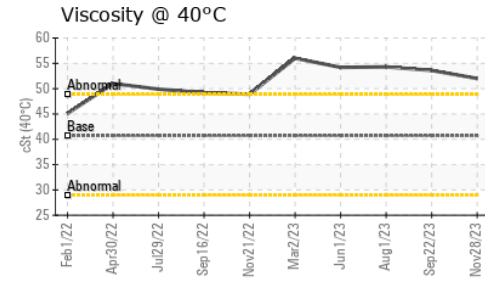
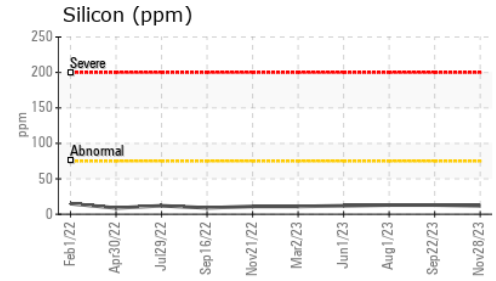
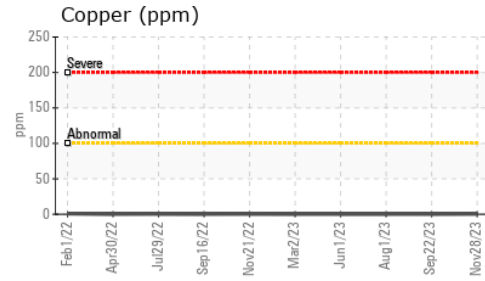
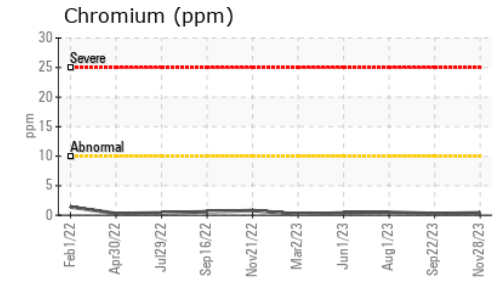
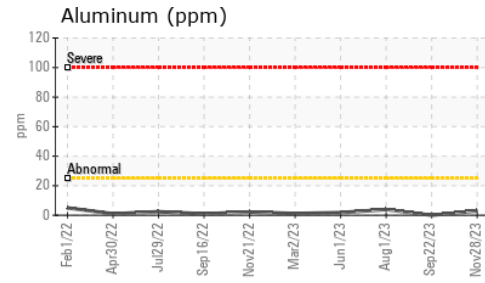
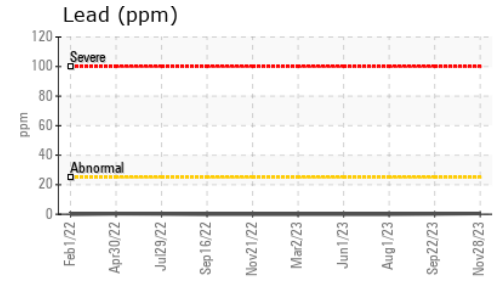
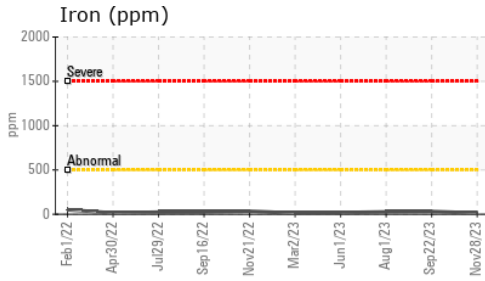


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	40.7	<b>52.0</b>	53.6	54.3

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.** : PCA0084341 **Recieved** : 19 Dec 2023  
**Lab Number** : 06039720 **Diagnosed** : 21 Dec 2023  
**Unique Number** : 10794949 **Diagnostician** : Jonathan Hester  
**Test Package** : MOB 1

**Kemp Quarries - Pryor Stone - Pryor**  
 1050 E 520 Rd  
 Pryor, OK  
 US 74361  
 Contact:  
 pryor@pryorstone.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)

T:  
F: