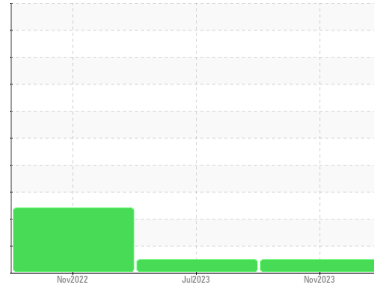


# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**FLEET**  
 Machine Id  
**2126948 (S/N N603211)**  
 Component  
**Primary Diesel Engine**  
 Fluid  
**PETRO CANADA 10W30 (36 QTS)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>PCA0108109</b>	PCA0102040	PCA0082595
Sample Date	Client Info		<b>14 Nov 2023</b>	25 Jul 2023	14 Nov 2022
Machine Age	mls	Client Info	<b>152045</b>	0	0
Oil Age	mls	Client Info	<b>40000</b>	0	0
Oil Changed	Client Info		<b>Changed</b>	N/A	N/A
Sample Status			<b>NORMAL</b>	NORMAL	ABNORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>6.0	<b>&lt;1.0</b>	<1.0	<1.0
Water	WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol	WC Method		<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	<b>22</b>	23	43
Chromium	ppm	ASTM D5185m >20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m >2	<b>4</b>	2	2
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m >2	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m >25	<b>5</b>	4	▲ 30
Lead	ppm	ASTM D5185m >40	<b>1</b>	1	7
Copper	ppm	ASTM D5185m >330	<b>29</b>	49	144
Tin	ppm	ASTM D5185m >15	<b>1</b>	2	4
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>1</b>	<1	220
Barium	ppm	ASTM D5185m	<b>0</b>	0	8
Molybdenum	ppm	ASTM D5185m	<b>62</b>	63	90
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	5
Magnesium	ppm	ASTM D5185m	<b>945</b>	931	609
Calcium	ppm	ASTM D5185m	<b>1082</b>	1131	1383
Phosphorus	ppm	ASTM D5185m	<b>937</b>	846	685
Zinc	ppm	ASTM D5185m	<b>1225</b>	1191	799
Sulfur	ppm	ASTM D5185m	<b>2547</b>	2679	2383

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>8</b>	6	▲ 40
Sodium	ppm	ASTM D5185m	<b>7</b>	2	5
Potassium	ppm	ASTM D5185m >20	<b>16</b>	10	66

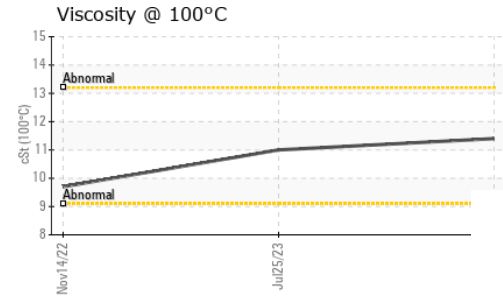
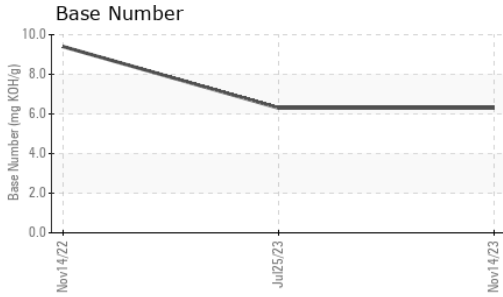
## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0.5</b>	0.5	0.2
Nitration	Abs/cm	*ASTM D7624 >20	<b>9.7</b>	10.0	9.8
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>21.3</b>	21.4	26.1

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>17.2</b>	17.3	23.2
Base Number (BN)	mg KOH/g	ASTM D2896	<b>6.3</b>	6.3	9.4

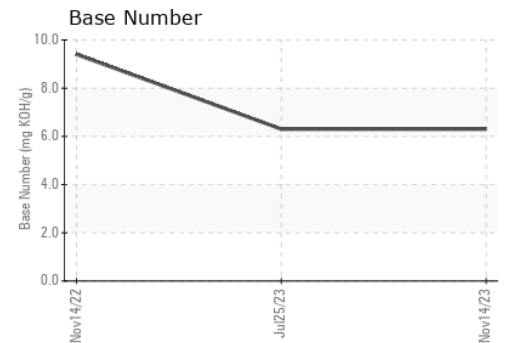
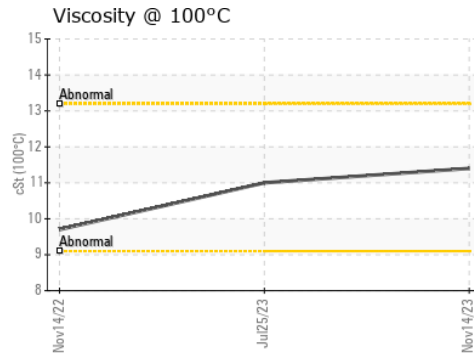
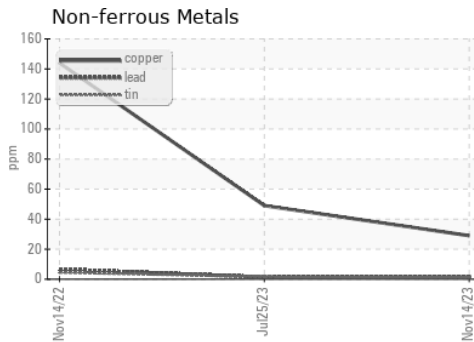
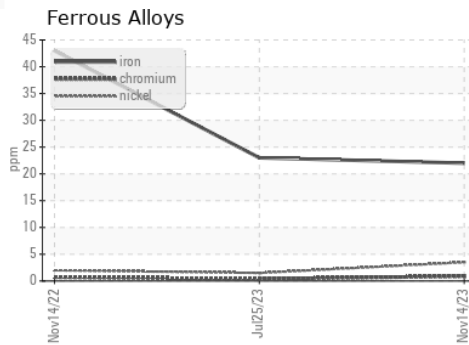
# OIL ANALYSIS REPORT



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	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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	<b>11.4</b>	11.0	9.7

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0108109     **Received** : 21 Nov 2023  
**Lab Number** : **06013803**     **Diagnosed** : 23 Nov 2023  
**Unique Number** : 10752947     **Diagnostician** : Don Baldrige  
**Test Package** : FLEET

**PERDUE FARMS - DILLON**  
 2047 HWY 9 WEST  
 DILLON, SC  
 US 29536  
 Contact: KEVIN HOOKS  
 kevin.hooks@perdue.com  
 T: (843)841-8069  
 F: (843)841-8070

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)