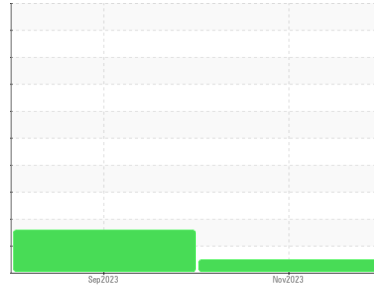


# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Machine Id  
**2227117**

Component  
**Diesel Engine**

Fluid  
**PETRO CANADA DURON SHP 10W30 (--- QTS)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

### Wear

Metal levels are typical for a new component breaking in.

### 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>PCA0106354</b>	PCA0101161	---
Sample Date	Client Info		<b>04 Nov 2023</b>	04 Sep 2023	---
Machine Age	mls	Client Info	<b>38250</b>	18100	---
Oil Age	mls	Client Info	<b>40000</b>	15000	---
Oil Changed	Client Info		<b>Changed</b>	Changed	---
Sample Status			<b>NORMAL</b>	ABNORMAL	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<b>&lt;1.0</b>	<1.0	---
Glycol	WC Method		<b>NEG</b>	NEG	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	<b>22</b>	33	---
Chromium	ppm	ASTM D5185m >20	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185m >4	<b>2</b>	<1	---
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m >3	<b>3</b>	18	---
Aluminum	ppm	ASTM D5185m >20	<b>13</b>	39	---
Lead	ppm	ASTM D5185m >40	<b>5</b>	<1	---
Copper	ppm	ASTM D5185m >330	<b>452</b>	150	---
Tin	ppm	ASTM D5185m >15	<b>2</b>	4	---
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	---
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 2	<b>13</b>	249	---
Barium	ppm	ASTM D5185m 0	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m 50	<b>68</b>	112	---
Manganese	ppm	ASTM D5185m 0	<b>1</b>	4	---
Magnesium	ppm	ASTM D5185m 950	<b>875</b>	687	---
Calcium	ppm	ASTM D5185m 1050	<b>1190</b>	1576	---
Phosphorus	ppm	ASTM D5185m 995	<b>987</b>	719	---
Zinc	ppm	ASTM D5185m 1180	<b>1135</b>	907	---
Sulfur	ppm	ASTM D5185m 2600	<b>2378</b>	3054	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>11</b>	▲ 45	---
Sodium	ppm	ASTM D5185m	<b>2</b>	4	---
Potassium	ppm	ASTM D5185m >20	<b>31</b>	93	---

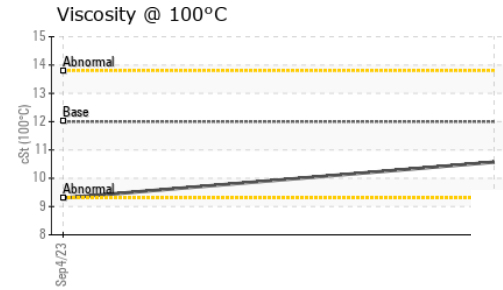
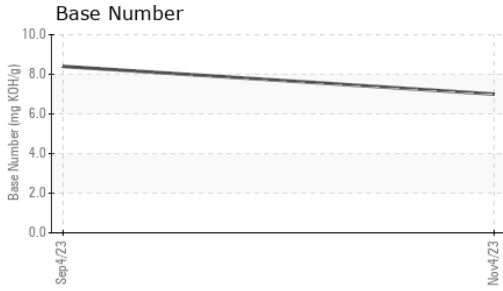
## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0.2</b>	0.2	---
Nitration	Abs/cm	*ASTM D7624 >20	<b>8.3</b>	8.0	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>19.8</b>	24.0	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>16.3</b>	20.1	---
Base Number (BN)	mg KOH/g	ASTM D2896	<b>7.0</b>	8.4	---

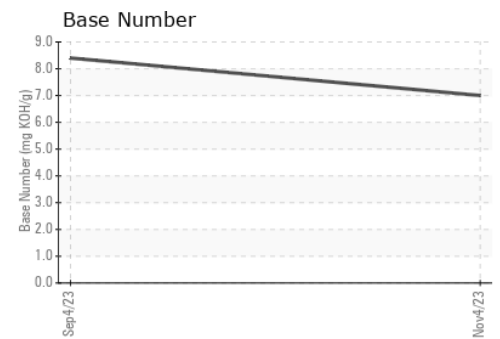
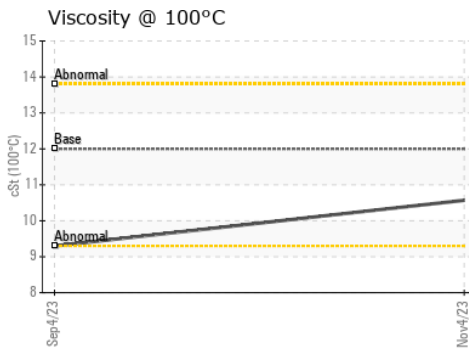
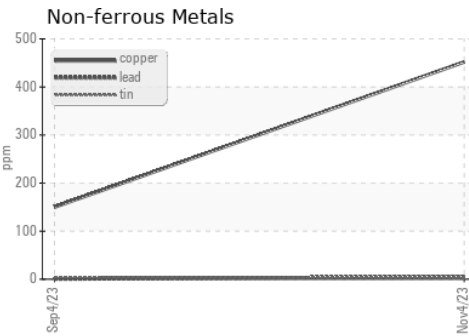
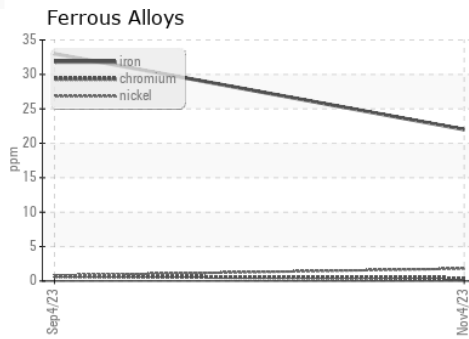
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	12.00	<b>10.57</b>	9.3	---

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0106354 **Received** : 10 Nov 2023  
**Lab Number** : **06003987** **Diagnosed** : 16 Nov 2023  
**Unique Number** : 10737749 **Diagnostician** : Wes Davis  
**Test Package** : FLEET

**PERDUE FARMS - SALISBURY**  
 7036 ZION CHURCH ROAD  
 SALISBURY, MD  
 US 21802  
 Contact: RICHARD O'NEAL  
 richard.oneal@perdue.com  
 T: (410)543-3628  
 F: (410)341-2164

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)