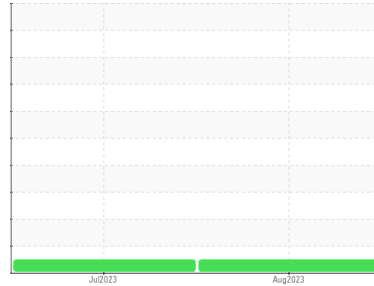


# OIL ANALYSIS REPORT

**Sample Rating Trend**

**NORMAL**

 Machine Id  
**2227012**

 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**

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. 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>PCA0088735</b>	PCA0088705	---
Sample Date	Client Info		<b>11 Aug 2023</b>	08 Jul 2023	---
Machine Age	mls	Client Info	<b>73000</b>	57250	---
Oil Age	mls	Client Info	<b>15000</b>	20000	---
Oil Changed	Client Info		<b>Changed</b>	Not Changd	---
Sample Status			<b>NORMAL</b>	NORMAL	---

**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>32</b>	22	---
Chromium	ppm	ASTM D5185m >20	<b>1</b>	<1	---
Nickel	ppm	ASTM D5185m >4	<b>0</b>	<1	---
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m >3	<b>0</b>	<1	---
Aluminum	ppm	ASTM D5185m >20	<b>20</b>	22	---
Lead	ppm	ASTM D5185m >40	<b>2</b>	2	---
Copper	ppm	ASTM D5185m >330	<b>70</b>	76	---
Tin	ppm	ASTM D5185m >15	<b>2</b>	2	---
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>1</b>	2	---
Barium	ppm	ASTM D5185m 0	<b>0</b>	2	---
Molybdenum	ppm	ASTM D5185m 50	<b>62</b>	66	---
Manganese	ppm	ASTM D5185m 0	<b>1</b>	<1	---
Magnesium	ppm	ASTM D5185m 950	<b>835</b>	856	---
Calcium	ppm	ASTM D5185m 1050	<b>1108</b>	1187	---
Phosphorus	ppm	ASTM D5185m 995	<b>810</b>	864	---
Zinc	ppm	ASTM D5185m 1180	<b>1113</b>	1178	---
Sulfur	ppm	ASTM D5185m 2600	<b>2142</b>	2562	---

**CONTAMINANTS**

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>8</b>	7	---
Sodium	ppm	ASTM D5185m	<b>&lt;1</b>	2	---
Potassium	ppm	ASTM D5185m >20	<b>63</b>	65	---

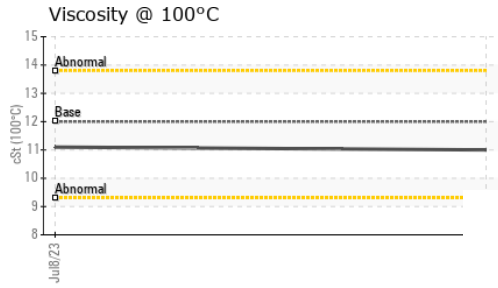
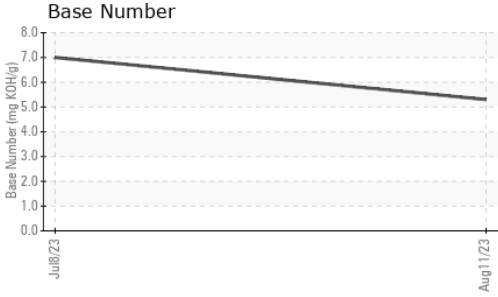
**INFRA-RED**

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0.5</b>	0.4	---
Nitration	Abs/cm	*ASTM D7624 >20	<b>10.4</b>	9.8	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>21.5</b>	21.4	---

**FLUID DEGRADATION**

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>18.5</b>	17.8	---
Base Number (BN)	mg KOH/g	ASTM D2896	<b>5.3</b>	7.0	---

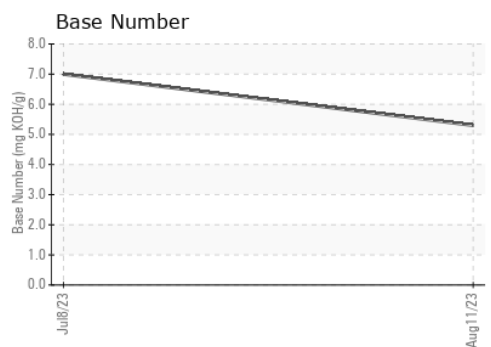
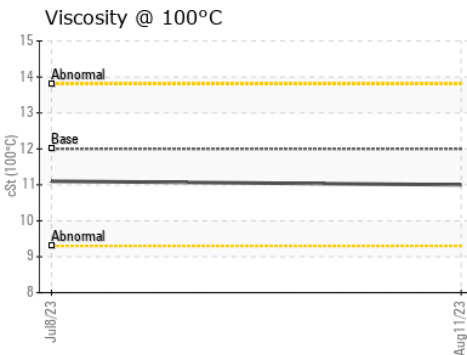
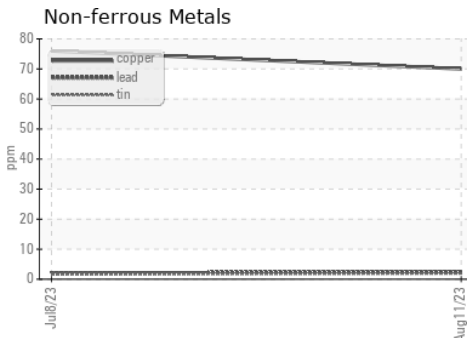
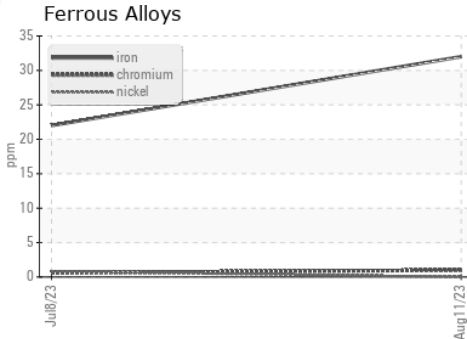
# OIL ANALYSIS REPORT



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>11.0</b>	11.1	---

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0088735 **Received** : 23 Aug 2023  
**Lab Number** : **05932579** **Diagnosed** : 24 Aug 2023  
**Unique Number** : 10617850 **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)