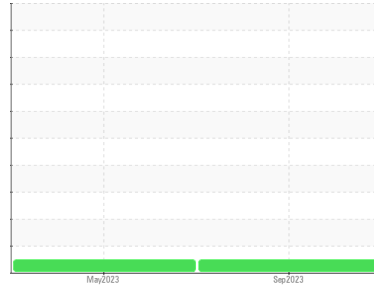


# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**


Area  
**(55226Z) Walgreens**  
 Machine Id  
**[Walgreens] 136A63358**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 10W30 (11 GAL)**


**DIAGNOSIS**
**Recommendation**

No corrective action is recommended at this time. Resample at the next service interval to monitor.

**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>PCA0105903</b>	PCA0091489	---
Sample Date	Client Info			<b>07 Sep 2023</b>	18 May 2023	---
Machine Age	mls	Client Info		<b>56016</b>	33920	---
Oil Age	mls	Client Info		<b>56016</b>	33920	---
Oil Changed	Client Info			<b>Changed</b>	Oil Added	---
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	>80	<b>71</b>	53	---
Chromium	ppm	ASTM D5185m	>5	<b>6</b>	4	---
Nickel	ppm	ASTM D5185m	>2	<b>2</b>	1	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	<1	---
Aluminum	ppm	ASTM D5185m	>30	<b>100</b>	59	---
Lead	ppm	ASTM D5185m	>30	<b>&lt;1</b>	2	---
Copper	ppm	ASTM D5185m	>150	<b>179</b>	194	---
Tin	ppm	ASTM D5185m	>5	<b>6</b>	5	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	---
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	---

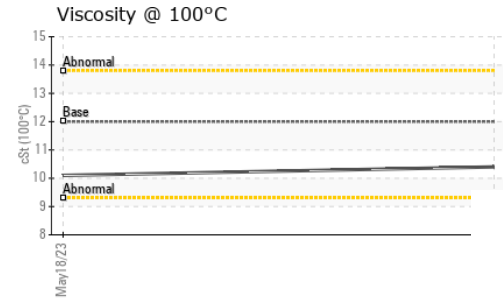
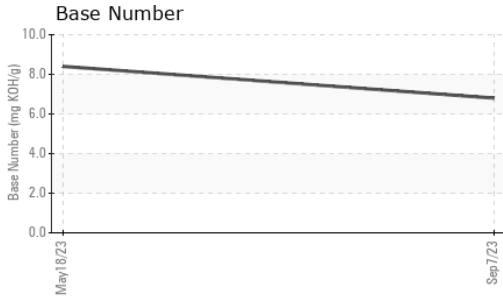
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	<b>28</b>	38	---
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	50	<b>42</b>	43	---
Manganese	ppm	ASTM D5185m	0	<b>5</b>	5	---
Magnesium	ppm	ASTM D5185m	950	<b>548</b>	580	---
Calcium	ppm	ASTM D5185m	1050	<b>1683</b>	1726	---
Phosphorus	ppm	ASTM D5185m	995	<b>726</b>	747	---
Zinc	ppm	ASTM D5185m	1180	<b>906</b>	936	---
Sulfur	ppm	ASTM D5185m	2600	<b>2245</b>	2278	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	<b>9</b>	8	---
Sodium	ppm	ASTM D5185m		<b>6</b>	6	---
Potassium	ppm	ASTM D5185m	>20	<b>237</b>	145	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	<b>0.8</b>	0.5	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>11.0</b>	9.5	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>22.4</b>	23.5	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>23.4</b>	23.4	---
Base Number (BN)	mg KOH/g	ASTM D2896		<b>6.8</b>	8.4	---

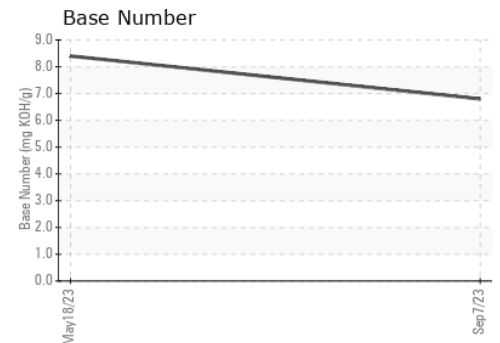
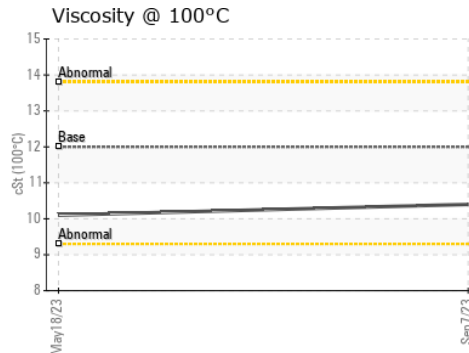
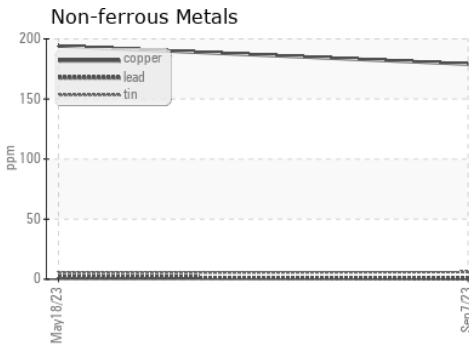
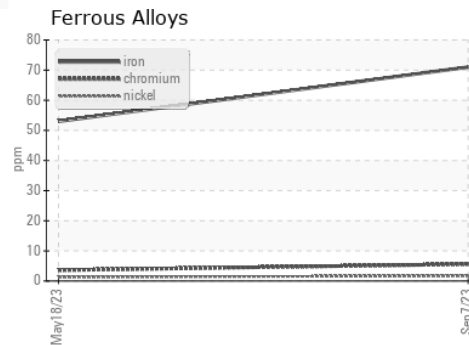
# OIL ANALYSIS REPORT



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>10.4</b>	10.1

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0105903 **Received** : 13 Sep 2023  
**Lab Number** : **05950653** **Diagnosed** : 18 Sep 2023  
**Unique Number** : 10646612 **Diagnostician** : Jonathan Hester  
**Test Package** : FLEET

**Transervice - Shop 1361 - Berkeley-Windsor**  
 4400 State Road 19  
 Windsor, WI  
 US 53598  
 Contact: Mike Hurda  
 mhurda@transervice.com  
 T: (608)846-2726  
 F: (608)846-0389

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)