

# OIL ANALYSIS REPORT

**Sample Rating Trend**

**NORMAL**


Area  
**(65216z)**  
Machine Id  
**136A624037**  
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**

All component wear rates are normal.

**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 acceptable for the time in service.

**SAMPLE INFORMATION**

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>PCA0119349</b>	---	---
Sample Date	Client Info		<b>29 May 2024</b>	---	---
Machine Age	mls	Client Info	<b>37249</b>	---	---
Oil Age	mls	Client Info	<b>0</b>	---	---
Oil Changed	Client Info		<b>N/A</b>	---	---
Sample Status			<b>NORMAL</b>	---	---

**CONTAMINATION**

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<b>&lt;1.0</b>	---	---
Water	WC Method	>0.2	<b>NEG</b>	---	---
Glycol	WC Method		<b>NEG</b>	---	---

**WEAR METALS**

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >80	<b>68</b>	---	---
Chromium	ppm	ASTM D5185m >5	<b>4</b>	---	---
Nickel	ppm	ASTM D5185m >2	<b>&lt;1</b>	---	---
Titanium	ppm	ASTM D5185m	<b>0</b>	---	---
Silver	ppm	ASTM D5185m >3	<b>&lt;1</b>	---	---
Aluminum	ppm	ASTM D5185m >30	<b>87</b>	---	---
Lead	ppm	ASTM D5185m >30	<b>0</b>	---	---
Copper	ppm	ASTM D5185m >150	<b>247</b>	---	---
Tin	ppm	ASTM D5185m >5	<b>5</b>	---	---
Vanadium	ppm	ASTM D5185m	<b>0</b>	---	---
Cadmium	ppm	ASTM D5185m	<b>0</b>	---	---

**ADDITIVES**

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 2	<b>33</b>	---	---
Barium	ppm	ASTM D5185m 0	<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185m 50	<b>42</b>	---	---
Manganese	ppm	ASTM D5185m 0	<b>4</b>	---	---
Magnesium	ppm	ASTM D5185m 950	<b>545</b>	---	---
Calcium	ppm	ASTM D5185m 1050	<b>1680</b>	---	---
Phosphorus	ppm	ASTM D5185m 995	<b>720</b>	---	---
Zinc	ppm	ASTM D5185m 1180	<b>916</b>	---	---
Sulfur	ppm	ASTM D5185m 2600	<b>2152</b>	---	---

**CONTAMINANTS**

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	<b>9</b>	---	---
Sodium	ppm	ASTM D5185m	<b>5</b>	---	---
Potassium	ppm	ASTM D5185m >20	<b>223</b>	---	---

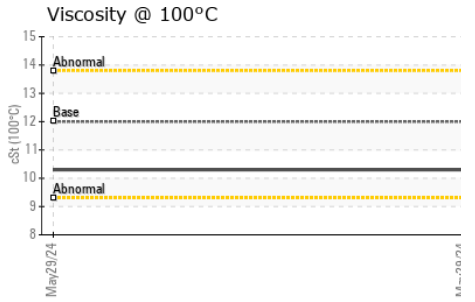
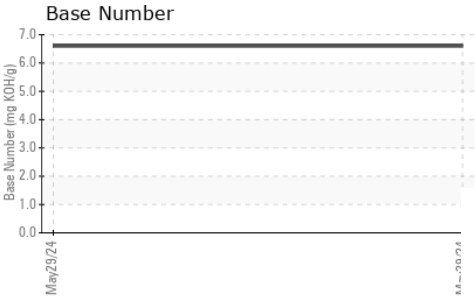
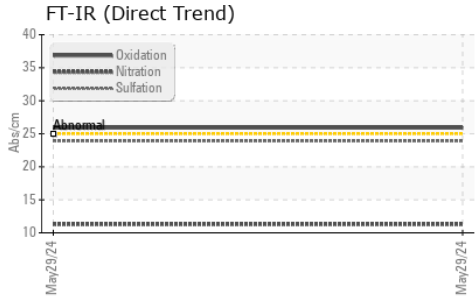
**INFRA-RED**

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0.9</b>	---	---
Nitration	Abs/cm	*ASTM D7624 >20	<b>11.3</b>	---	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>23.9</b>	---	---

**FLUID DEGRADATION**

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>25.9</b>	---	---
Base Number (BN)	mg KOH/g	ASTM D2896	<b>6.6</b>	---	---

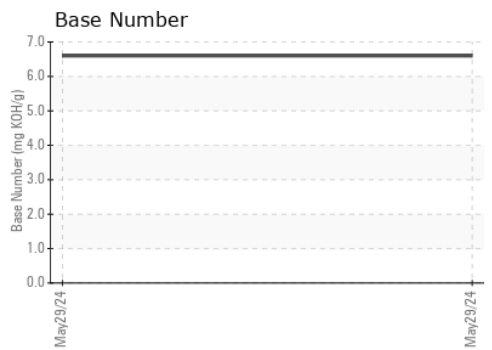
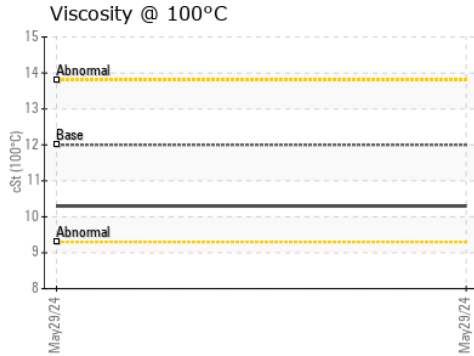
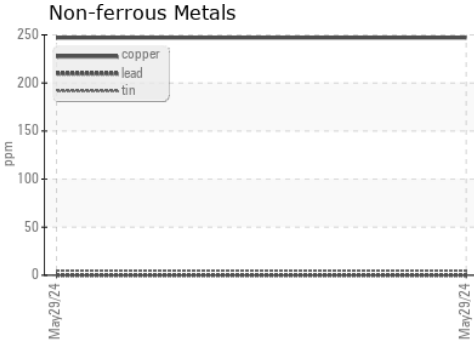
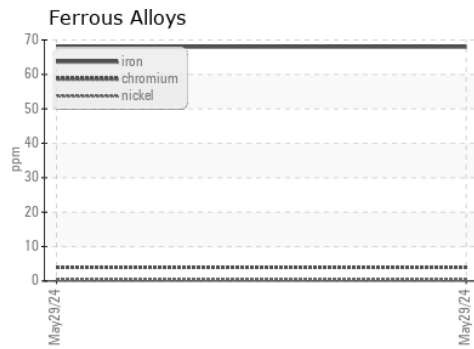
# OIL ANALYSIS REPORT



PARAMETER	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>10.3</b>	---

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0119349      **Received** : 07 Jun 2024  
**Lab Number** : **06202533**      **Tested** : 11 Jun 2024  
**Unique Number** : 11069994      **Diagnosed** : 11 Jun 2024 - Sean Felton  
**Test Package** : FLEET

**Transervice - Shop 1377 - Berkeley-Dayville**  
 68 Shepherd Hill Rd  
 Danielson, CT  
 US 06239  
 Contact: Shop 1377 Oil Analysis  
 shop1377@transervice.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)

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F: