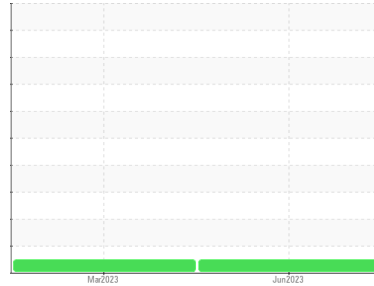


# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**(97209X) Walgreens**  
Machine Id  
**[Walgreens] 136A62120**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 10W30 (11 GAL)**

## DIAGNOSIS

### Recommendation

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 suitable for further service.

## SAMPLE INFORMATION

method	limit/base	current	history 1	history 2
Sample Number	Client Info	<b>PCA0093849</b>	PCA0087957	---
Sample Date	Client Info	<b>22 Jun 2023</b>	06 Mar 2023	---
Machine Age	mls Client Info	<b>500201</b>	473265	---
Oil Age	mls Client Info	<b>26936</b>	28245	---
Oil Changed	Client Info	<b>Not Chngd</b>	Changed	---
Sample Status		<b>NORMAL</b>	NORMAL	---

## CONTAMINATION

method	limit/base	current	history 1	history 2
Fuel	WC Method >5	<b>&lt;1.0</b>	<1.0	---
Glycol	WC Method	<b>NEG</b>	NEG	---

## WEAR METALS

method	limit/base	current	history 1	history 2
Iron	ppm ASTM D5185m >80	<b>27</b>	9	---
Chromium	ppm ASTM D5185m >5	<b>4</b>	1	---
Nickel	ppm ASTM D5185m >2	<b>1</b>	0	---
Titanium	ppm ASTM D5185m	<b>0</b>	<1	---
Silver	ppm ASTM D5185m >3	<b>&lt;1</b>	0	---
Aluminum	ppm ASTM D5185m >30	<b>62</b>	6	---
Lead	ppm ASTM D5185m >30	<b>0</b>	0	---
Copper	ppm ASTM D5185m >150	<b>40</b>	2	---
Tin	ppm ASTM D5185m >5	<b>2</b>	<1	---
Vanadium	ppm ASTM D5185m	<b>&lt;1</b>	<1	---
Cadmium	ppm ASTM D5185m	<b>0</b>	0	---

## ADDITIVES

method	limit/base	current	history 1	history 2
Boron	ppm ASTM D5185m 2	<b>6</b>	<1	---
Barium	ppm ASTM D5185m 0	<b>0</b>	0	---
Molybdenum	ppm ASTM D5185m 50	<b>59</b>	58	---
Manganese	ppm ASTM D5185m 0	<b>2</b>	1	---
Magnesium	ppm ASTM D5185m 950	<b>939</b>	927	---
Calcium	ppm ASTM D5185m 1050	<b>1167</b>	1075	---
Phosphorus	ppm ASTM D5185m 995	<b>969</b>	945	---
Zinc	ppm ASTM D5185m 1180	<b>1258</b>	1232	---
Sulfur	ppm ASTM D5185m 2600	<b>2954</b>	3201	---

## CONTAMINANTS

method	limit/base	current	history 1	history 2
Silicon	ppm ASTM D5185m >20	<b>5</b>	5	---
Sodium	ppm ASTM D5185m	<b>3</b>	2	---
Potassium	ppm ASTM D5185m >20	<b>112</b>	2	---

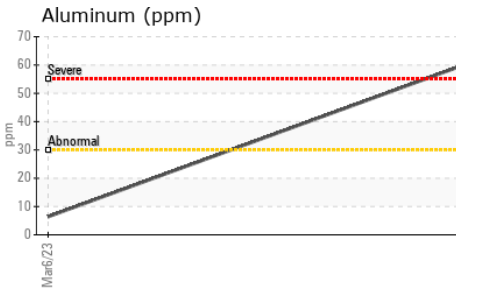
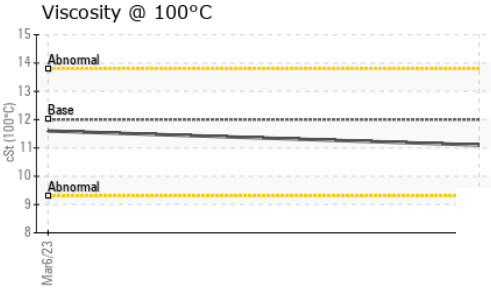
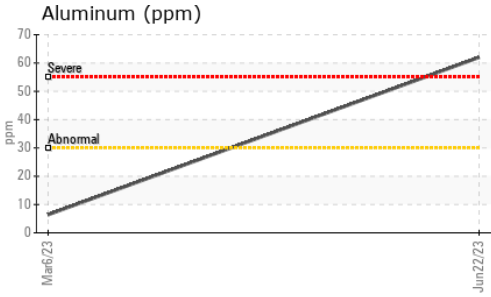
## INFRA-RED

method	limit/base	current	history 1	history 2
Soot %	% *ASTM D7844 >3	<b>0.4</b>	0.4	---
Nitration	Abs/cm *ASTM D7624 >20	<b>8.4</b>	7.7	---
Sulfation	Abs/.1mm *ASTM D7415 >30	<b>20.9</b>	18.8	---

## FLUID DEGRADATION

method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm *ASTM D7414 >25	<b>18.4</b>	14.7	---
Base Number (BN)	mg KOH/g ASTM D2896	<b>6.8</b>	8.6	---

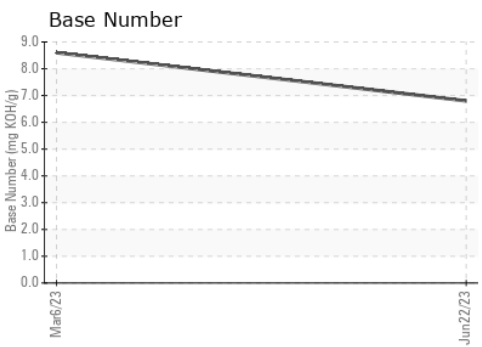
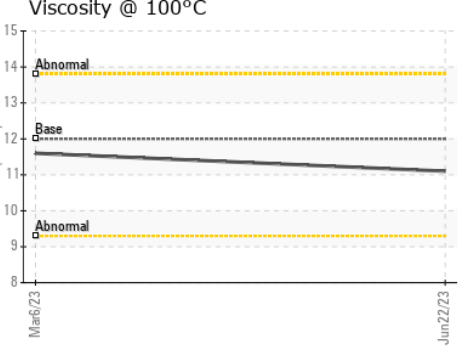
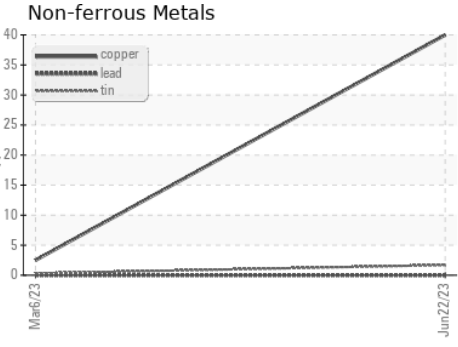
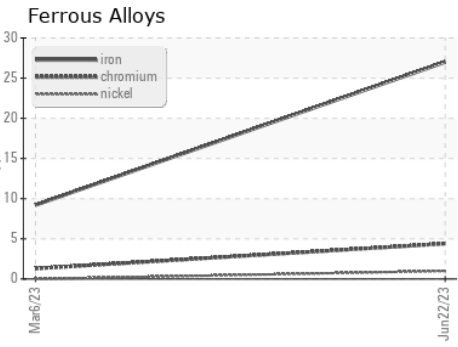
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history 1	history 2
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	history 1	history 2
Visc @ 100°C	cSt	ASTM D445	12.00	11.1	11.6

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0093849 **Received** : 29 Jun 2023  
**Lab Number** : 05886394 **Diagnosed** : 02 Jul 2023  
**Unique Number** : 10536877 **Diagnostician** : Wes Davis  
**Test Package** : FLEET

**Transervice - Shop 1366 - Berkeley-Woodland**  
 2370 East Main Street  
 Woodland, CA  
 US 95776  
 Contact: Gary Mann  
 gmann@transervice.com  
 T: (530)666-7771  
 F: (530)406-7971

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)