

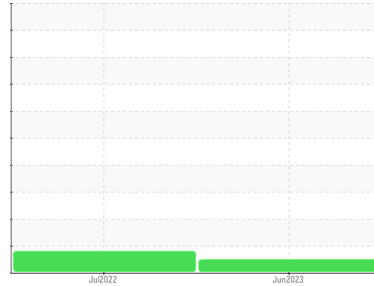
# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**

 Machine Id  
**624561**

 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

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>PCA0097741</b>	PCA0075990	---
Sample Date	Client Info			<b>13 Jun 2023</b>	01 Jul 2022	---
Machine Age	mls	Client Info		<b>0</b>	34134	---
Oil Age	mls	Client Info		<b>0</b>	34134	---
Oil Changed	Client Info			<b>Changed</b>	Changed	---
Sample Status				<b>NORMAL</b>	ABNORMAL	---

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	>100	<b>64</b>	80	---
Chromium	ppm	ASTM D5185m	>20	<b>3</b>	5	---
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	2	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m	>3	<b>0</b>	<1	---
Aluminum	ppm	ASTM D5185m	>20	<b>21</b>	43	---
Lead	ppm	ASTM D5185m	>40	<b>0</b>	5	---
Copper	ppm	ASTM D5185m	>330	<b>62</b>	▲ 460	---
Tin	ppm	ASTM D5185m	>15	<b>3</b>	12	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	---

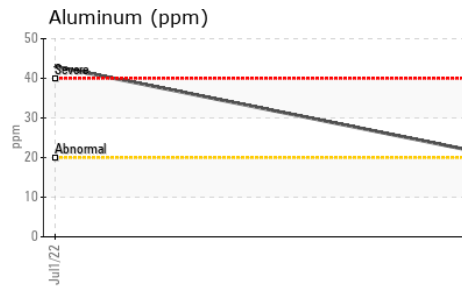
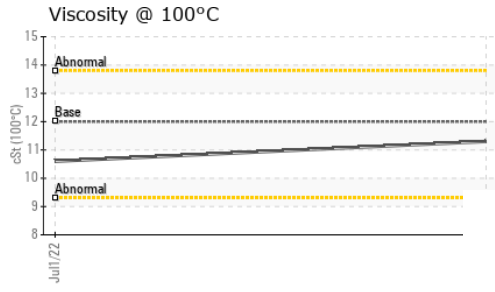
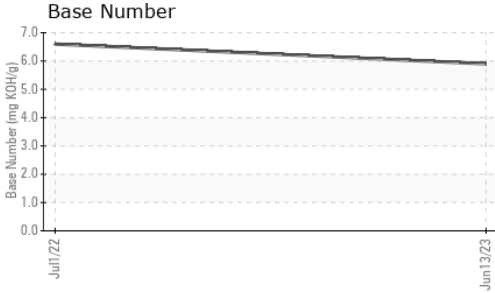
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	2	<b>5</b>	24	---
Barium	ppm	ASTM D5185m	0	<b>12</b>	0	---
Molybdenum	ppm	ASTM D5185m	50	<b>67</b>	7	---
Manganese	ppm	ASTM D5185m	0	<b>2</b>	4	---
Magnesium	ppm	ASTM D5185m	950	<b>974</b>	711	---
Calcium	ppm	ASTM D5185m	1050	<b>1262</b>	1460	---
Phosphorus	ppm	ASTM D5185m	995	<b>996</b>	715	---
Zinc	ppm	ASTM D5185m	1180	<b>1281</b>	825	---
Sulfur	ppm	ASTM D5185m	2600	<b>2831</b>	3220	---

CONTAMINANTS		method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	<b>5</b>	8	---
Sodium	ppm	ASTM D5185m		<b>4</b>	7	---
Potassium	ppm	ASTM D5185m	>20	<b>61</b>	126	---

INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844	>3	<b>1.4</b>	1.1	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>13.7</b>	14.0	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>25.2</b>	25.9	---

FLUID DEGRADATION		method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>23.1</b>	23.5	---
Base Number (BN)	mg KOH/g	ASTM D2896		<b>5.9</b>	6.6	---

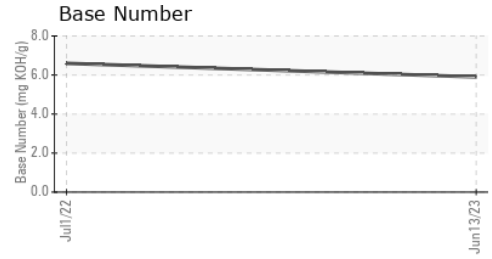
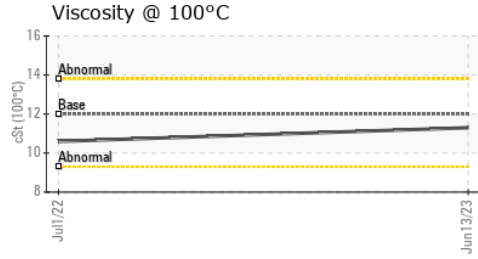
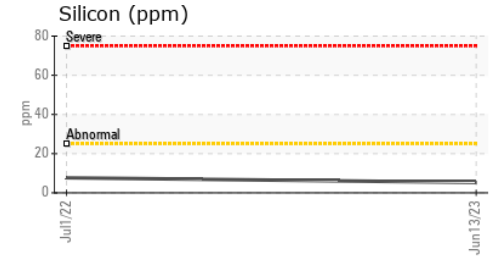
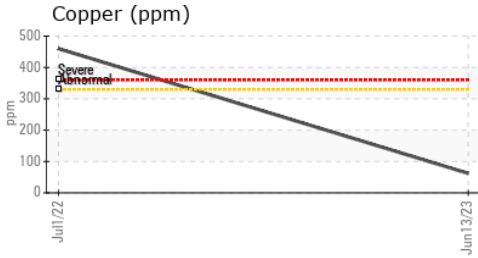
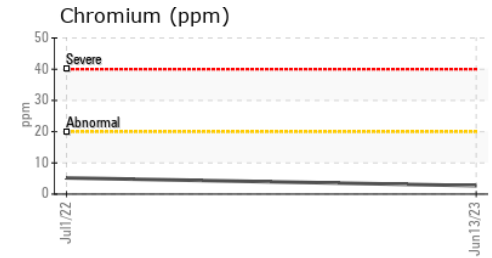
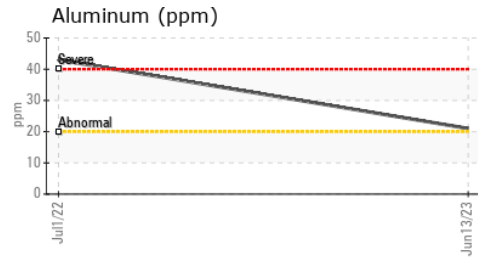
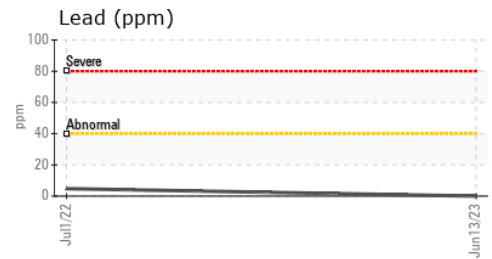
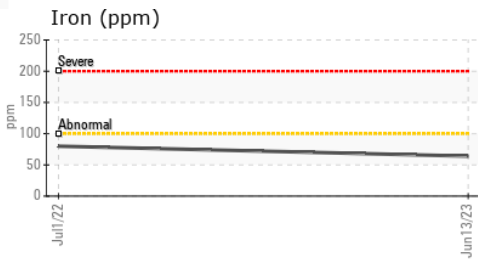
# OIL ANALYSIS REPORT



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	11.3	10.6

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0097741 **Received** : 03 Jul 2023  
**Lab Number** : 05888653 **Diagnosed** : 05 Jul 2023  
**Unique Number** : 10539136 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: TBN )

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)

63 REPAUPO STATION ROAD  
 LOGAN TOWNSHIP, NJ  
 US 08085  
 Contact: ED DAVIS  
 edavis@millertransgroup.com  
 T: (856)214-3521  
 F: (856)214-3663