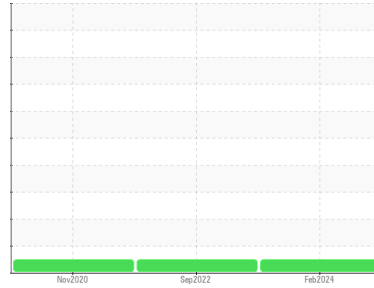


# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**Charlestown**  
Machine Id  
**647**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 10W30 (10 GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

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>PCA0078325</b>	PCA0066764	PCA0023154
Sample Date	Client Info		<b>12 Feb 2024</b>	12 Sep 2022	03 Nov 2020
Machine Age	mls	Client Info	<b>356267</b>	271449	125829
Oil Age	mls	Client Info	<b>20000</b>	0	0
Oil Changed	Client Info		<b>Changed</b>	Changed	Changed
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>3.0	<b>&lt;1.0</b>	<1.0	<1.0
Water	WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol	WC Method		<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >200	<b>25</b>	12	14
Chromium	ppm	ASTM D5185m >20	<b>1</b>	2	3
Nickel	ppm	ASTM D5185m >2	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m >2	<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m >2	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m >30	<b>14</b>	5	12
Lead	ppm	ASTM D5185m >30	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m >30	<b>6</b>	3	22
Tin	ppm	ASTM D5185m >15	<b>&lt;1</b>	<1	0
Antimony	ppm	ASTM D5185m	<b>---</b>	---	0
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 2	<b>0</b>	4	5
Barium	ppm	ASTM D5185m 0	<b>4</b>	0	0
Molybdenum	ppm	ASTM D5185m 50	<b>65</b>	62	58
Manganese	ppm	ASTM D5185m 0	<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m 950	<b>979</b>	969	1104
Calcium	ppm	ASTM D5185m 1050	<b>1164</b>	1133	1212
Phosphorus	ppm	ASTM D5185m 995	<b>1009</b>	1044	1021
Zinc	ppm	ASTM D5185m 1180	<b>1331</b>	1286	1128
Sulfur	ppm	ASTM D5185m 2600	<b>2939</b>	3451	2386

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >30	<b>5</b>	4	4
Sodium	ppm	ASTM D5185m	<b>0</b>	<1	1
Potassium	ppm	ASTM D5185m >20	<b>7</b>	3	19

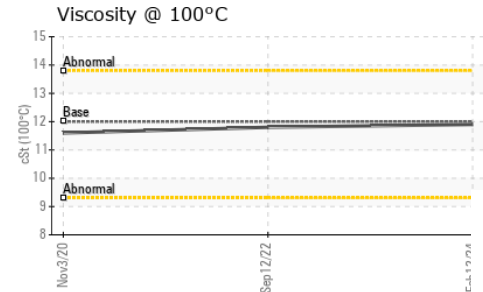
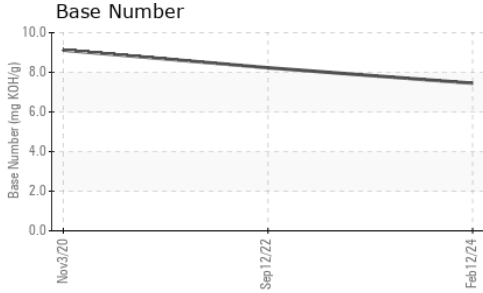
## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0.9</b>	0.6	0.5
Nitration	Abs/cm	*ASTM D7624 >20	<b>9.9</b>	10.0	8.2
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>22.6</b>	21.2	20.3

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>18.3</b>	16.3	15.5
Base Number (BN)	mg KOH/g	ASTM D2896	<b>7.45</b>	8.23	9.12

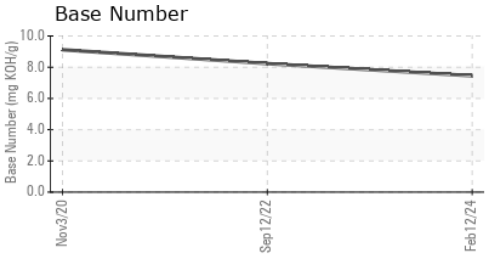
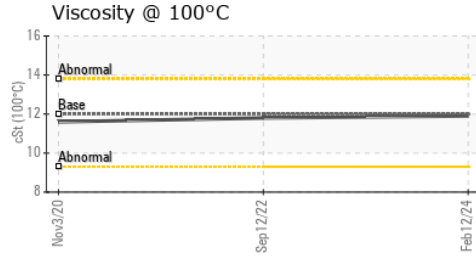
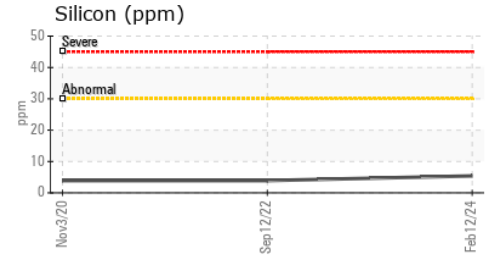
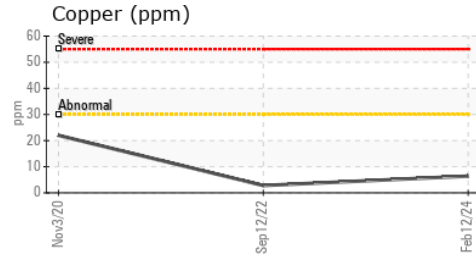
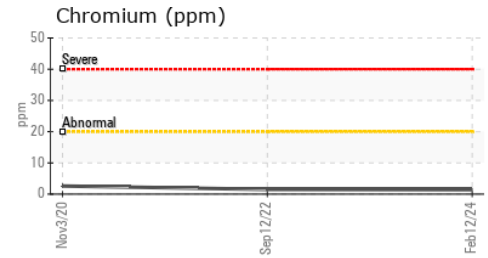
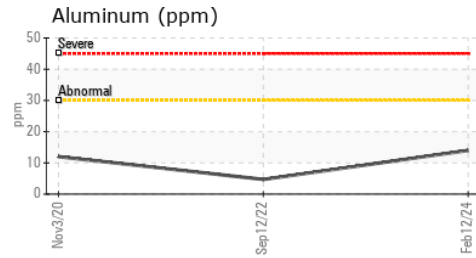
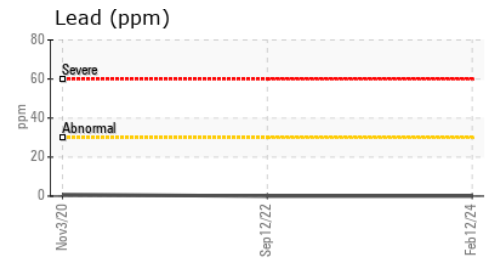
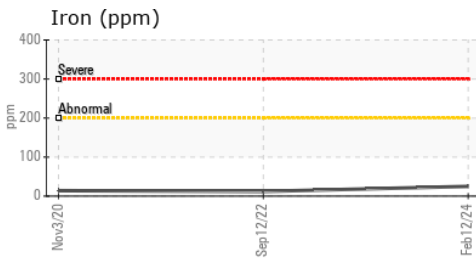
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	12.00	11.9	11.8

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0078325  
**Lab Number** : 06094393  
**Unique Number** : 10887246  
**Test Package** : MOB 2

**Received** : 20 Feb 2024  
**Tested** : 21 Feb 2024  
**Diagnosed** : 21 Feb 2024 - Wes Davis

**PORTSIDE TRUCK AND AUTO - DIVERSIFIED AUTO**  
 100 TERMINAL ST  
 CHARLESTOWN, MA  
 US 02129

Contact: BRYAN WINTER  
 BWINTERS@DIVERSIFIEDAUTO.COM

T: 1(857)998-2229

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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