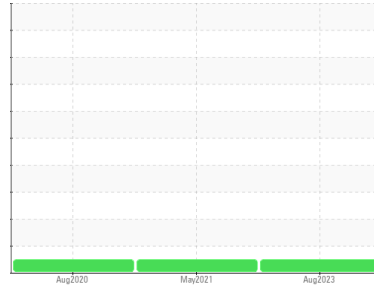


# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Area  
**Charlestown**  
Machine Id  
**627**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 10W30 (--- 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>PCA0078322</b>	WC0570214	PCA0023336
Sample Date	Client Info		<b>24 Aug 2023</b>	28 May 2021	07 Aug 2020
Machine Age	mls	Client Info	<b>473130</b>	291659	0
Oil Age	mls	Client Info	<b>18000</b>	291659	218200
Oil Changed	Client Info		<b>Changed</b>	Changed	N/A
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	0.4
Glycol	WC Method		<b>NEG</b>	NEG	NEG

### WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >200	<b>13</b>	17	11
Chromium	ppm	ASTM D5185m >20	<b>1</b>	2	1
Nickel	ppm	ASTM D5185m >2	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185m >2	<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m >2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >30	<b>5</b>	8	1
Lead	ppm	ASTM D5185m >30	<b>0</b>	0	0
Copper	ppm	ASTM D5185m >30	<b>2</b>	3	7
Tin	ppm	ASTM D5185m >15	<b>&lt;1</b>	0	<1
Antimony	ppm	ASTM D5185m	<b>---</b>	0	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>&lt;1</b>	4	4
Barium	ppm	ASTM D5185m 0	<b>2</b>	0	<1
Molybdenum	ppm	ASTM D5185m 50	<b>66</b>	61	62
Manganese	ppm	ASTM D5185m 0	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m 950	<b>975</b>	1040	961
Calcium	ppm	ASTM D5185m 1050	<b>1202</b>	1175	1063
Phosphorus	ppm	ASTM D5185m 995	<b>1071</b>	1078	998
Zinc	ppm	ASTM D5185m 1180	<b>1269</b>	1200	1242
Sulfur	ppm	ASTM D5185m 2600	<b>2934</b>	2713	2496

### CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >30	<b>4</b>	4	2
Sodium	ppm	ASTM D5185m	<b>0</b>	3	2
Potassium	ppm	ASTM D5185m >20	<b>2</b>	7	4

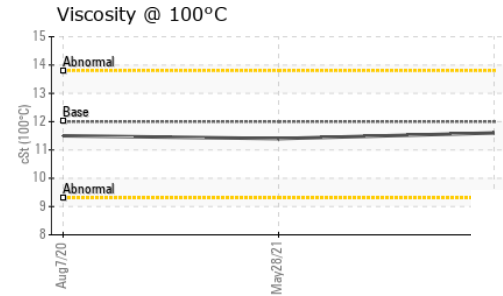
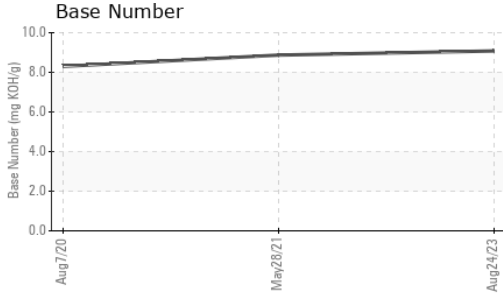
### INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0.4</b>	0.4	0.4
Nitration	Abs/cm	*ASTM D7624 >20	<b>9.0</b>	8.9	8
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>20.2</b>	22	20.2

### FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>16.7</b>	17.6	16
Base Number (BN)	mg KOH/g	ASTM D2896	<b>9.08</b>	8.87	8.3

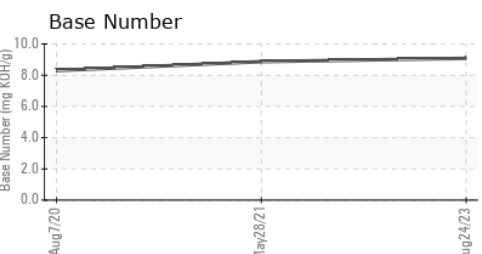
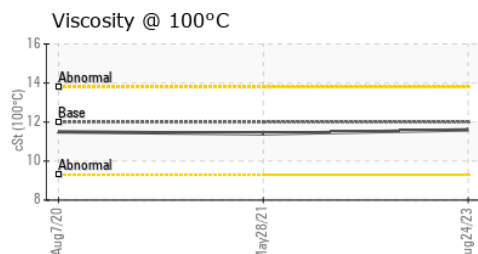
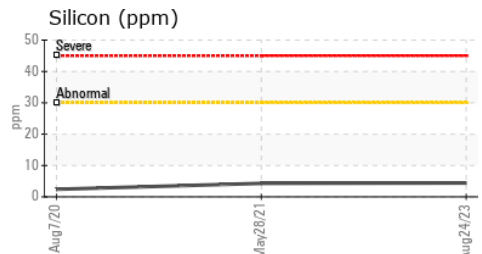
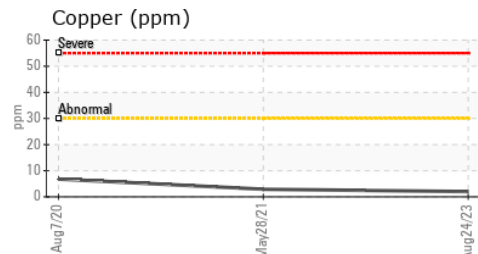
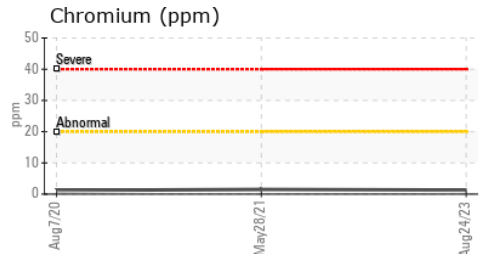
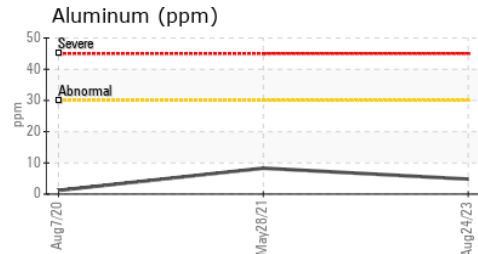
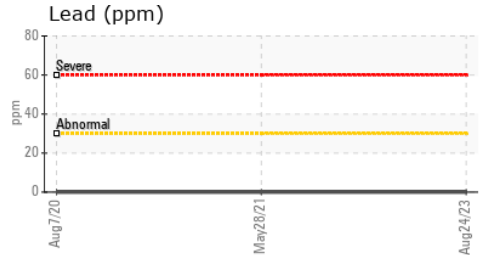
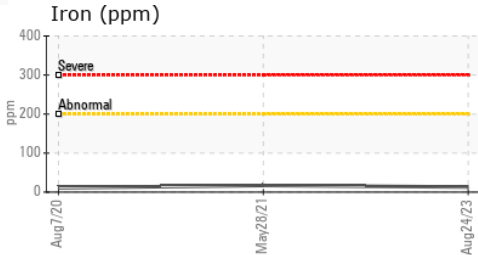
# OIL ANALYSIS REPORT



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	11.6	11.4

### GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0078322 **Received** : 29 Aug 2023  
**Lab Number** : 05937451 **Diagnosed** : 30 Aug 2023  
**Unique Number** : 10622722 **Diagnostician** : Wes Davis  
**Test Package** : MOB 2

**PORTSIDE TRUCK AND AUTO - DIVERSIFIED AUTO**  
 100 TERMINAL ST  
 CHARLESTOWN, MA  
 US 02129  
 Contact: GLEN DAVIS  
 glenn.davis@diversifiedauto.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: