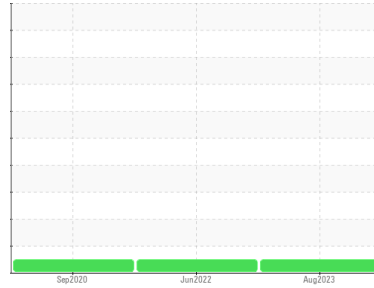


# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Area  
**Charlestown**  
Machine Id  
**606**  
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>PCA0078289</b>	WC0594649	PCA0023332
Sample Date	Client Info			<b>11 Aug 2023</b>	27 Jun 2022	01 Sep 2020
Machine Age	mls	Client Info		<b>417857</b>	346635	215718
Oil Age	mls	Client Info		<b>346635</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
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	9
Chromium	ppm	ASTM D5185m	>20	<b>1</b>	2	1
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185m	>2	<b>0</b>	0	<1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185m	>30	<b>3</b>	6	4
Lead	ppm	ASTM D5185m	>30	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185m	>30	<b>&lt;1</b>	3	12
Tin	ppm	ASTM D5185m	>15	<b>0</b>	<1	1
Antimony	ppm	ASTM D5185m		<b>---</b>	---	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

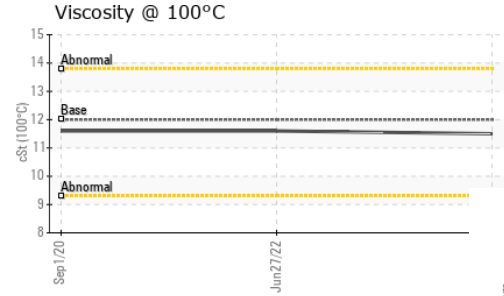
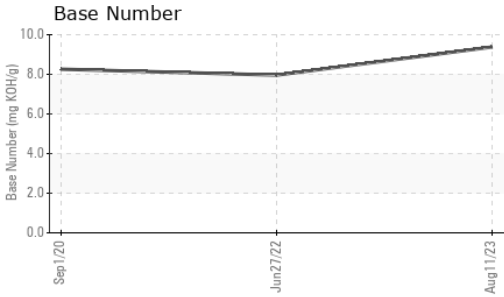
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	<b>2</b>	9	7
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	50	<b>62</b>	63	64
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	950	<b>969</b>	952	977
Calcium	ppm	ASTM D5185m	1050	<b>1114</b>	1147	1078
Phosphorus	ppm	ASTM D5185m	995	<b>1015</b>	1018	986
Zinc	ppm	ASTM D5185m	1180	<b>1246</b>	1272	1313
Sulfur	ppm	ASTM D5185m	2600	<b>3229</b>	3524	2817

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	<b>4</b>	3	3
Sodium	ppm	ASTM D5185m		<b>1</b>	2	2
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	2	3

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>	9.6	7.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>19.8</b>	20.7	20.1

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>16.3</b>	16.9	15.6
Base Number (BN)	mg KOH/g	ASTM D2896		<b>9.38</b>	7.96	8.26

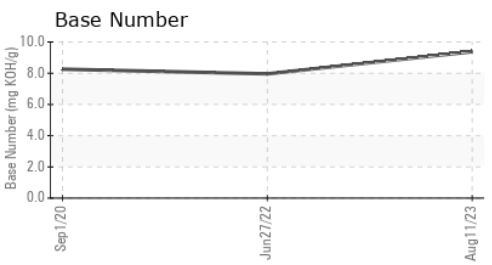
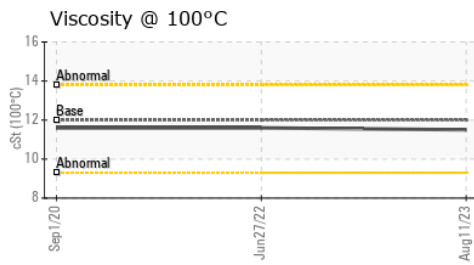
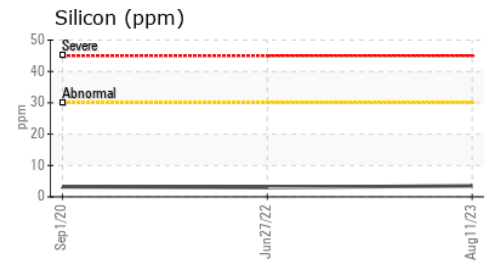
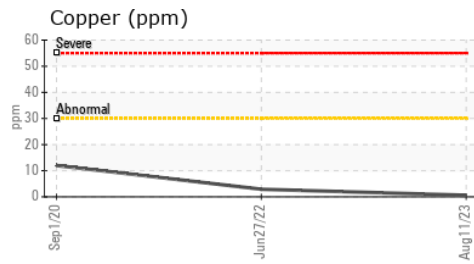
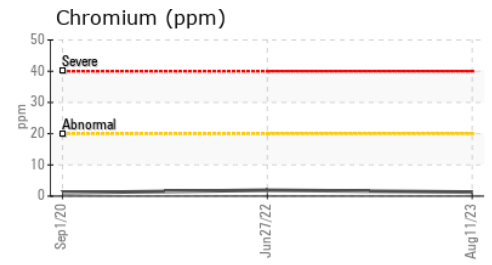
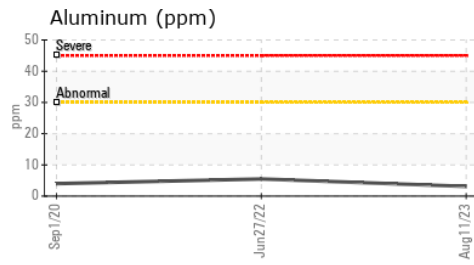
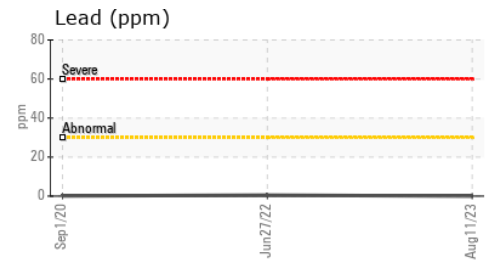
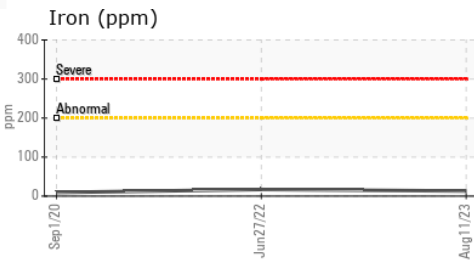
# OIL ANALYSIS REPORT



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	<b>11.5</b>	11.6	11.6

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0078289 **Received** : 18 Aug 2023  
**Lab Number** : **05928427** **Diagnosed** : 21 Aug 2023  
**Unique Number** : 10608374 **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: