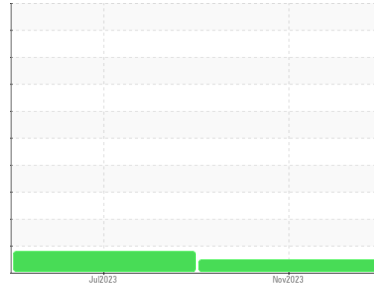


# OIL ANALYSIS REPORT

**Sample Rating Trend**

**NORMAL**


Machine Id  
**738613**  
 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>PCA0093260</b>	PCA0100777	---
Sample Date	Client Info			<b>01 Nov 2023</b>	08 Jul 2023	---
Machine Age	mls	Client Info		<b>43743</b>	74014	---
Oil Age	mls	Client Info		<b>43743</b>	74014	---
Oil Changed	Client Info			<b>Changed</b>	Changed	---
Sample Status				<b>NORMAL</b>	ABNORMAL	---

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>5		<b>&lt;1.0</b>	<1.0	---
Glycol	WC Method			<b>NEG</b>	NEG	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	<b>63</b>	▲ 198	---
Chromium	ppm	ASTM D5185m	>20	<b>2</b>	8	---
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	2	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>20	<b>15</b>	53	---
Lead	ppm	ASTM D5185m	>40	<b>0</b>	3	---
Copper	ppm	ASTM D5185m	>330	<b>53</b>	242	---
Tin	ppm	ASTM D5185m	>15	<b>0</b>	4	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	---
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	---

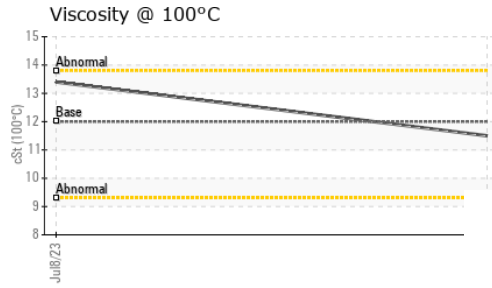
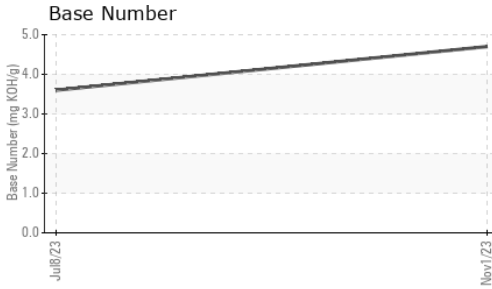
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	<b>4</b>	21	---
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	50	<b>57</b>	48	---
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	5	---
Magnesium	ppm	ASTM D5185m	950	<b>824</b>	588	---
Calcium	ppm	ASTM D5185m	1050	<b>1277</b>	2082	---
Phosphorus	ppm	ASTM D5185m	995	<b>917</b>	863	---
Zinc	ppm	ASTM D5185m	1180	<b>1153</b>	1092	---
Sulfur	ppm	ASTM D5185m	2600	<b>2085</b>	2432	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>7</b>	10	---
Sodium	ppm	ASTM D5185m		<b>4</b>	7	---
Potassium	ppm	ASTM D5185m	>20	<b>39</b>	150	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	<b>1.3</b>	1.9	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>12.7</b>	21.8	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>25.0</b>	33.5	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>26.1</b>	47.7	---
Base Number (BN)	mg KOH/g	ASTM D2896		<b>4.7</b>	3.6	---

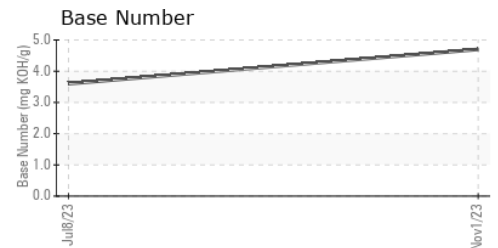
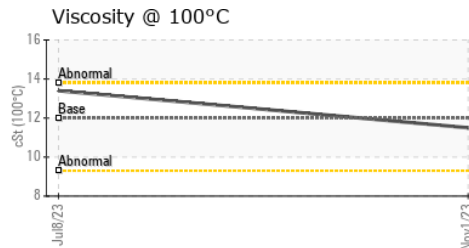
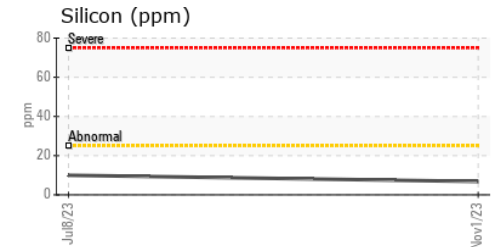
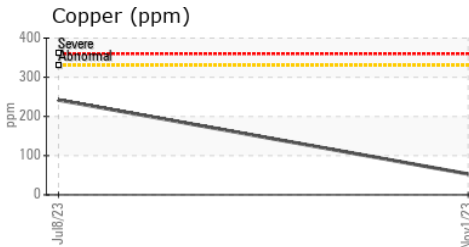
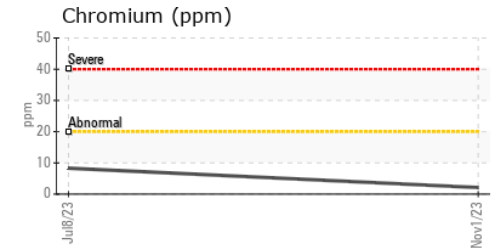
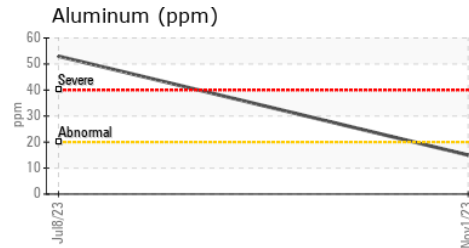
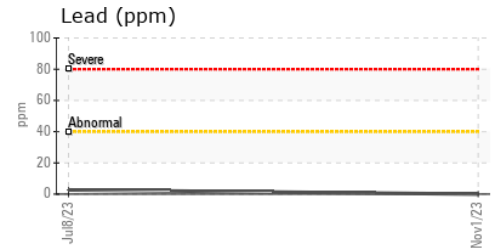
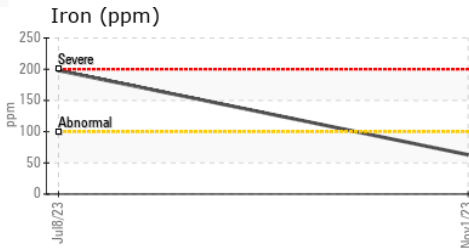
# OIL ANALYSIS REPORT



PARAMETER	method	limit/base	current	history1	history2
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	---

PARAMETER	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	12.00	11.5	13.4

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0093260 **Received** : 06 Nov 2023  
**Lab Number** : 05998726 **Diagnosed** : 07 Nov 2023  
**Unique Number** : 10727086 **Diagnostician** : Don Baldrige  
**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)

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