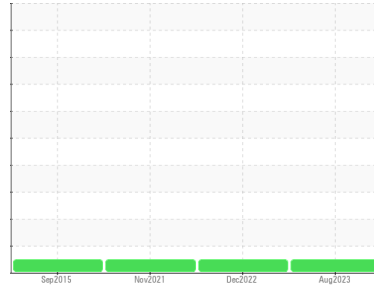


# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**

 Area  
**Active**  
 Machine Id  
**36**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 15W40 (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>PCA0098477</b>	PCA0083408	PCA0059551
Sample Date	Client Info			<b>07 Aug 2023</b>	06 Dec 2022	15 Nov 2021
Machine Age	hrs	Client Info		<b>252606</b>	252606	252606
Oil Age	hrs	Client Info		<b>252606</b>	252606	252606
Oil Changed	Client Info			<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>5		<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	>100	<b>17</b>	30	42
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	2
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>20	<b>&lt;1</b>	2	5
Lead	ppm	ASTM D5185m	>40	<b>3</b>	1	1
Copper	ppm	ASTM D5185m	>330	<b>7</b>	4	19
Tin	ppm	ASTM D5185m	>15	<b>1</b>	1	<1
Antimony	ppm	ASTM D5185m		<b>---</b>	---	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

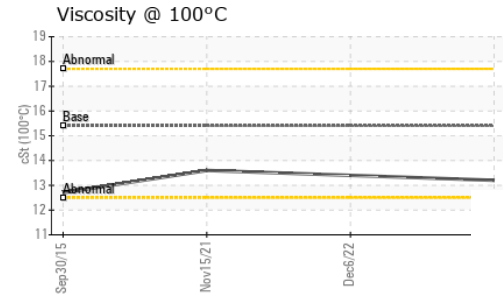
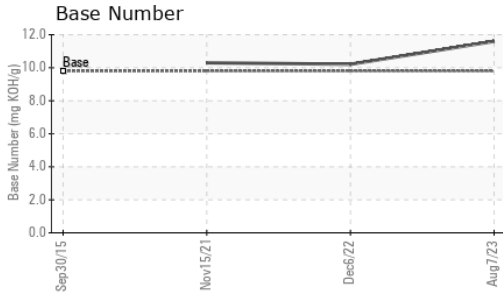
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<b>0</b>	8	10
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	60	<b>60</b>	62	59
Manganese	ppm	ASTM D5185m	0	<b>2</b>	<1	<1
Magnesium	ppm	ASTM D5185m	1010	<b>858</b>	1020	898
Calcium	ppm	ASTM D5185m	1070	<b>952</b>	1175	1081
Phosphorus	ppm	ASTM D5185m	1150	<b>913</b>	1036	950
Zinc	ppm	ASTM D5185m	1270	<b>1151</b>	1323	1140
Sulfur	ppm	ASTM D5185m	2060	<b>3393</b>	3496	2609

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>4</b>	4	8
Sodium	ppm	ASTM D5185m		<b>6</b>	<1	2
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	2	4

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	<b>0.2</b>	0.3	0.2
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.3</b>	9.5	8.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>20.8</b>	23.1	20

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>18.4</b>	21.0	16.8
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>11.60</b>	10.21	10.3

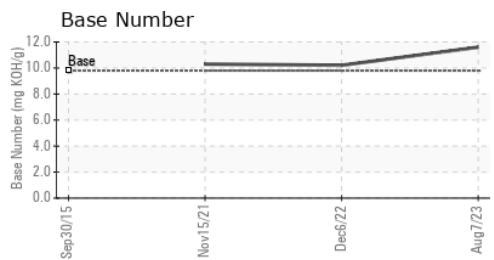
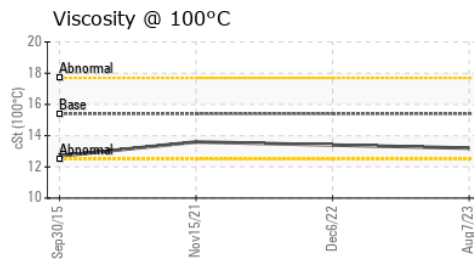
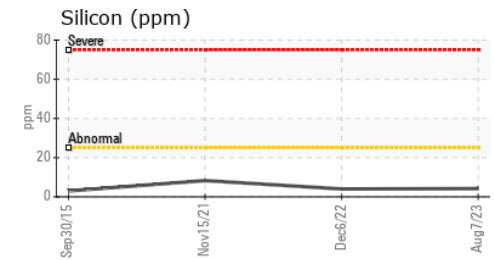
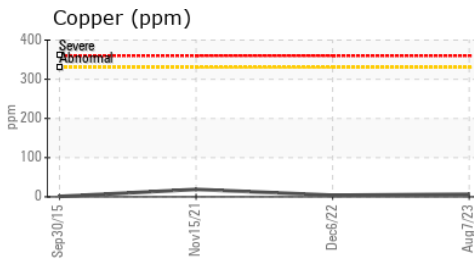
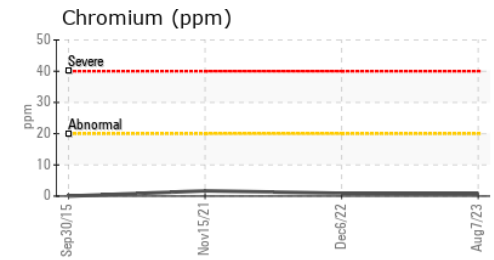
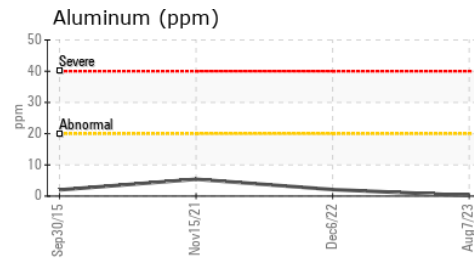
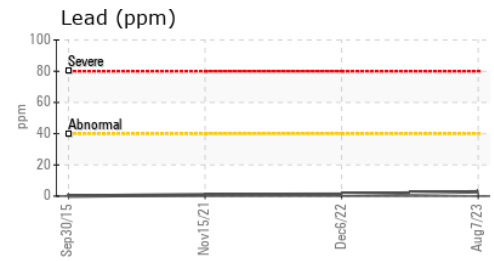
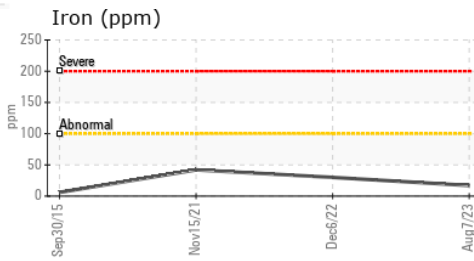
# OIL ANALYSIS REPORT



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	15.4	<b>13.2</b>	13.4	13.6

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0098477 **Received** : 10 Aug 2023  
**Lab Number** : **05920791** **Diagnosed** : 11 Aug 2023  
**Unique Number** : 10592705 **Diagnostician** : Wes Davis  
**Test Package** : MOB 2

**REDI MIX SERVICES**  
 120 BERKLEY ST  
 TAUNTON, MA  
 US 02780  
 Contact: HENRY HOLLER  
 hholler@glopes.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: