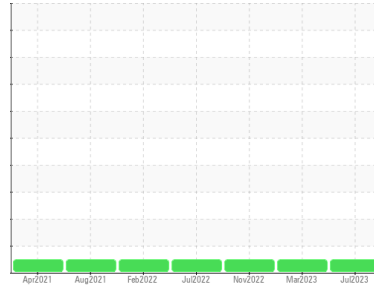




# OIL ANALYSIS REPORT

### Sample Rating Trend



**NORMAL**



Area  
**Active**  
 Machine Id  
**59**  
 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>PCA0098547</b>	PCA0090635	PCA0083447
Sample Date	Client Info		<b>12 Jul 2023</b>	22 Mar 2023	21 Nov 2022
Machine Age	hrs	Client Info	<b>135163</b>	135163	130700
Oil Age	hrs	Client Info	<b>9312</b>	13775	15702
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>14</b>	10	12
Chromium	ppm	ASTM D5185m >20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m >4	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m >3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >20	<b>2</b>	1	1
Lead	ppm	ASTM D5185m >40	<b>5</b>	1	3
Copper	ppm	ASTM D5185m >330	<b>1</b>	<1	<1
Tin	ppm	ASTM D5185m >15	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	<b>7</b>	10	6
Barium	ppm	ASTM D5185m 0	<b>2</b>	0	0
Molybdenum	ppm	ASTM D5185m 60	<b>67</b>	59	62
Manganese	ppm	ASTM D5185m 0	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m 1010	<b>975</b>	903	969
Calcium	ppm	ASTM D5185m 1070	<b>1176</b>	1071	1120
Phosphorus	ppm	ASTM D5185m 1150	<b>1059</b>	983	1000
Zinc	ppm	ASTM D5185m 1270	<b>1332</b>	1201	1277
Sulfur	ppm	ASTM D5185m 2060	<b>3242</b>	2758	3323

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>4</b>	3	4
Sodium	ppm	ASTM D5185m	<b>6</b>	2	5
Potassium	ppm	ASTM D5185m >20	<b>2</b>	1	0

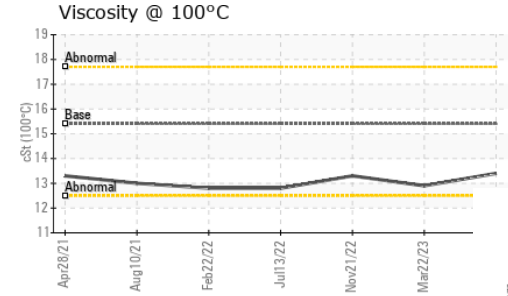
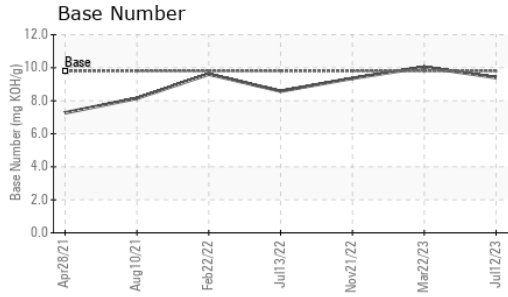
## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0.5</b>	0.3	0.4
Nitration	Abs/cm	*ASTM D7624 >20	<b>10.7</b>	8.5	10.5
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>22.1</b>	19.7	22.7

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>18.9</b>	15.5	18.5
Base Number (BN)	mg KOH/g	ASTM D2896 9.8	<b>9.40</b>	10.04	9.36

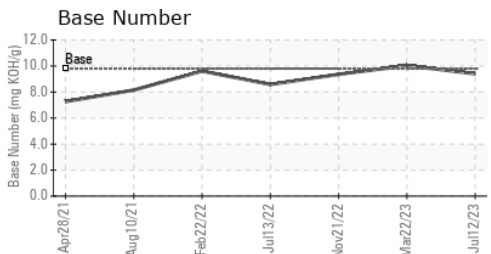
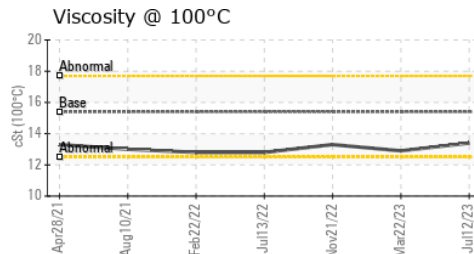
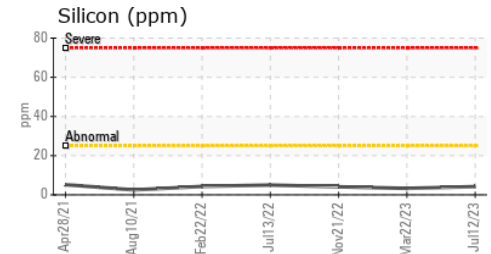
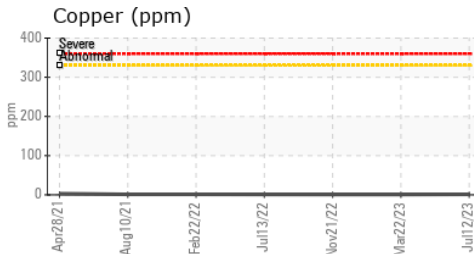
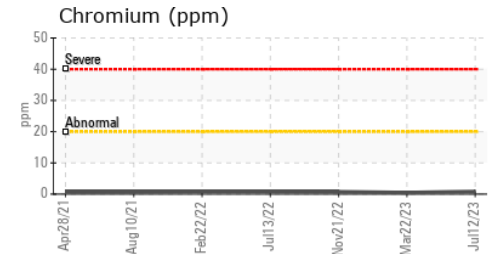
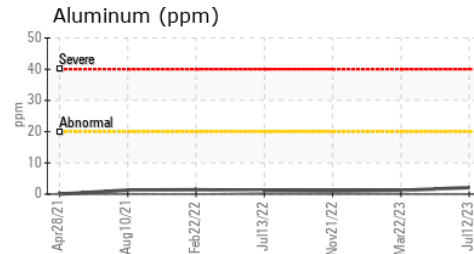
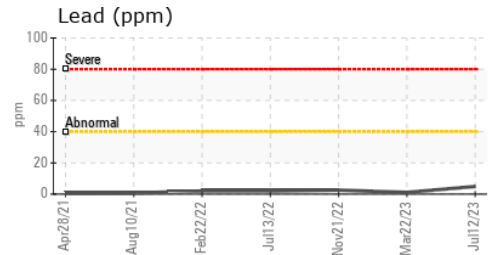
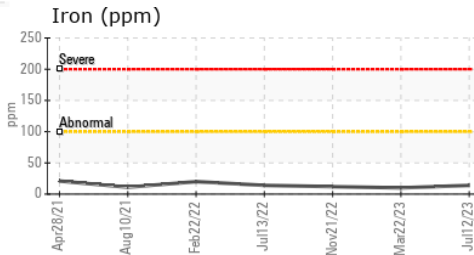
# OIL ANALYSIS REPORT



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>13.4</b>	12.9	13.3

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0098547 **Received** : 14 Jul 2023  
**Lab Number** : **05898747** **Diagnosed** : 17 Jul 2023  
**Unique Number** : 10560103 **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: