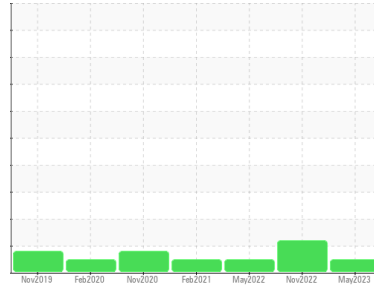


# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**Active**  
 Machine Id  
**48**  
 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>PCA0083114</b>	PCA0083449	PCA0072259
Sample Date	Client Info		<b>31 May 2023</b>	21 Nov 2022	11 May 2022
Machine Age	mls	Client Info	<b>264616</b>	256836	256836
Oil Age	mls	Client Info	<b>32411</b>	24631	232205
Oil Changed	Client Info		<b>N/A</b>	N/A	N/A
Sample Status			<b>NORMAL</b>	ABNORMAL	NORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water	WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol	WC Method		<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	<b>32</b>	31	41
Chromium	ppm	ASTM D5185m >20	<b>2</b>	2	2
Nickel	ppm	ASTM D5185m >4	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m	<b>0</b>	<1	0
Silver	ppm	ASTM D5185m >3	<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185m >20	<b>0</b>	3	3
Lead	ppm	ASTM D5185m >40	<b>14</b>	25	32
Copper	ppm	ASTM D5185m >330	<b>4</b>	3	3
Tin	ppm	ASTM D5185m >15	<b>1</b>	2	2
Antimony	ppm	ASTM D5185m	<b>---</b>	---	---
Vanadium	ppm	ASTM D5185m	<b>0</b>	<1	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	<1	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	<b>7</b>	32	22
Barium	ppm	ASTM D5185m 0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m 60	<b>68</b>	68	79
Manganese	ppm	ASTM D5185m 0	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m 1010	<b>1082</b>	1007	1276
Calcium	ppm	ASTM D5185m 1070	<b>1293</b>	1189	1524
Phosphorus	ppm	ASTM D5185m 1150	<b>1113</b>	1060	1360
Zinc	ppm	ASTM D5185m 1270	<b>1386</b>	1369	1582
Sulfur	ppm	ASTM D5185m 2060	<b>3559</b>	3413	3120

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>10</b>	7	4
Sodium	ppm	ASTM D5185m	<b>2</b>	53	1
Potassium	ppm	ASTM D5185m >20	<b>&lt;1</b>	▲ 63	0

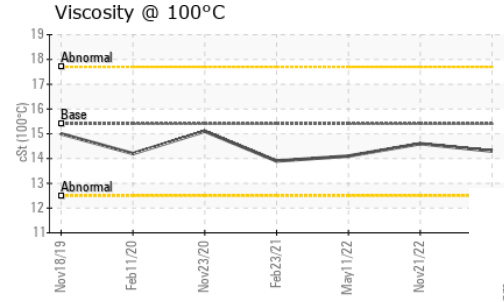
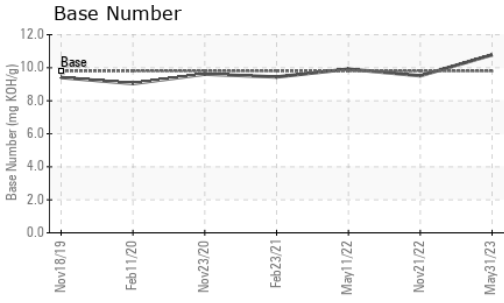
## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>1.4</b>	0.9	1
Nitration	Abs/cm	*ASTM D7624 >20	<b>11.5</b>	14.9	12.0
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>25.1</b>	23.2	24.6

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>21.8</b>	23.3	21.3
Base Number (BN)	mg KOH/g	ASTM D2896 9.8	<b>10.78</b>	9.51	9.92

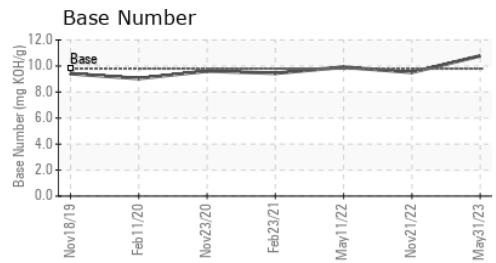
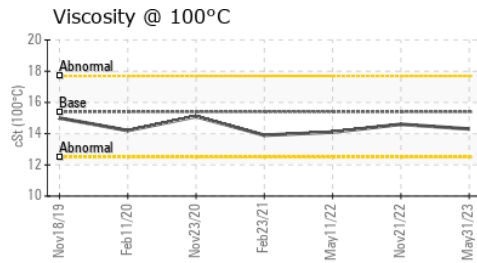
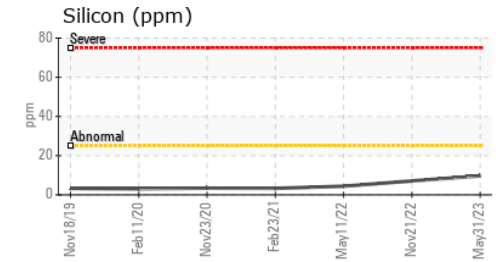
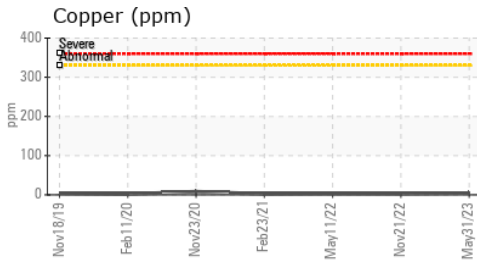
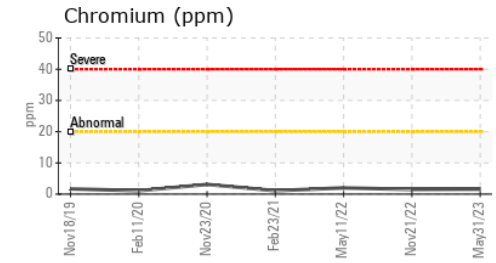
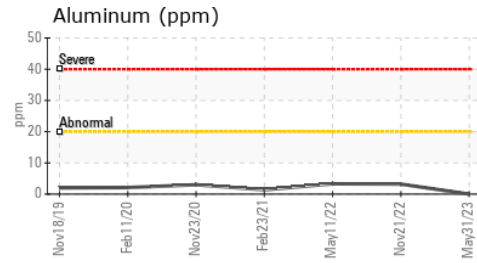
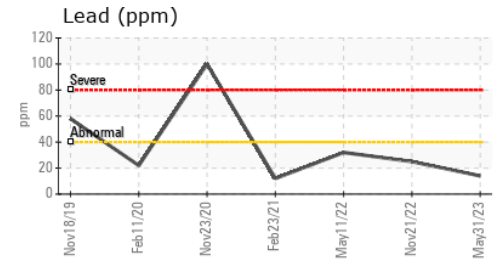
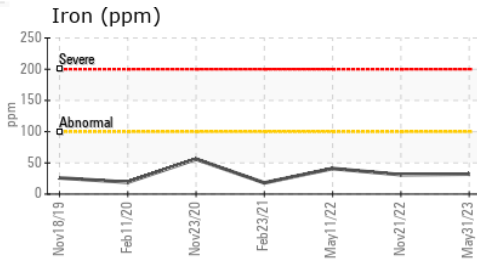
# OIL ANALYSIS REPORT



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>14.3</b>	14.6	14.1	

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0083114 **Recieved** : 02 Jun 2023  
**Lab Number** : **05863183** **Diagnosed** : 05 Jun 2023  
**Unique Number** : 10497648 **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)