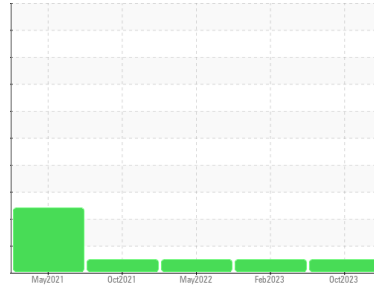


# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**144 (S/N J414120)**

Component  
**Diesel Engine**

Fluid  
**PETRO CANADA DURON HP 15W40 (--- LTR)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

### 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>PCA0044174</b>	PCA0044139	PCA0044230
Sample Date	Client Info		<b>07 Oct 2023</b>	01 Feb 2023	18 May 2022
Machine Age	mls	Client Info	<b>139508</b>	114540	89761
Oil Age	mls	Client Info	<b>24968</b>	24779	24544
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	>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>8</b>	55	44
Chromium	ppm	ASTM D5185m >20	<b>&lt;1</b>	6	6
Nickel	ppm	ASTM D5185m >4	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185m	<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m >3	<b>0</b>	<1	1
Aluminum	ppm	ASTM D5185m >20	<b>4</b>	45	53
Lead	ppm	ASTM D5185m >40	<b>1</b>	3	2
Copper	ppm	ASTM D5185m >330	<b>&lt;1</b>	3	2
Tin	ppm	ASTM D5185m >15	<b>&lt;1</b>	1	2
Antimony	ppm	ASTM D5185m	<b>---</b>	---	---
Vanadium	ppm	ASTM D5185m	<b>0</b>	<1	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	<1

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>1</b>	0	6
Barium	ppm	ASTM D5185m	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>60</b>	60	58
Manganese	ppm	ASTM D5185m	<b>0</b>	1	<1
Magnesium	ppm	ASTM D5185m	<b>1084</b>	938	974
Calcium	ppm	ASTM D5185m	<b>1208</b>	1065	974
Phosphorus	ppm	ASTM D5185m	<b>1074</b>	969	981
Zinc	ppm	ASTM D5185m	<b>1549</b>	1242	1168
Sulfur	ppm	ASTM D5185m	<b>3852</b>	3139	2592

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>6</b>	15	8
Sodium	ppm	ASTM D5185m	<b>&lt;1</b>	3	4
Potassium	ppm	ASTM D5185m >20	<b>11</b>	111	149

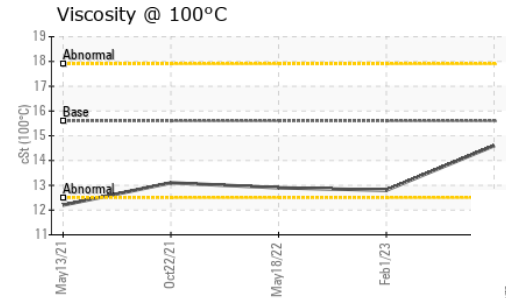
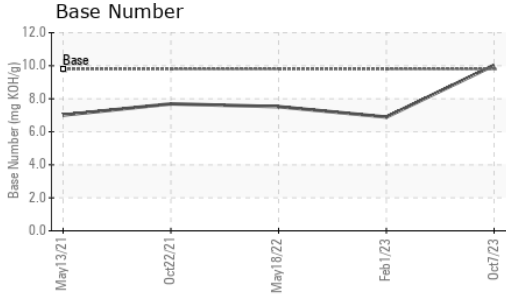
## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0.2</b>	0.8	0.7
Nitration	Abs/cm	*ASTM D7624 >20	<b>5.7</b>	12.7	12.3
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>18.2</b>	23.8	23.4

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>13.7</b>	19.0	19.2
Base Number (BN)	mg KOH/g	ASTM D2896 9.8	<b>10.03</b>	6.89	7.52

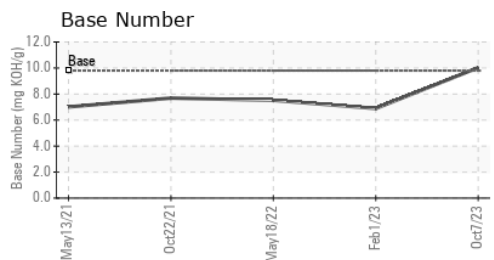
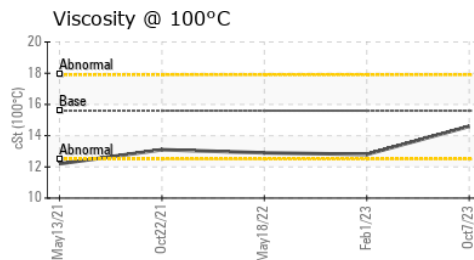
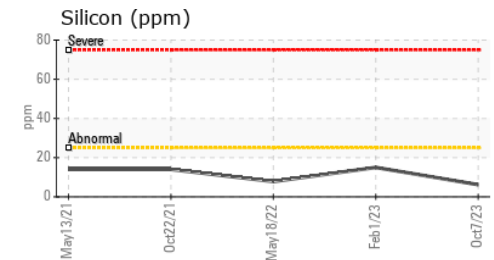
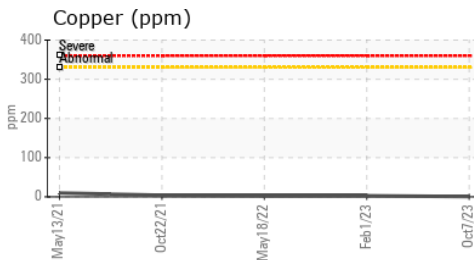
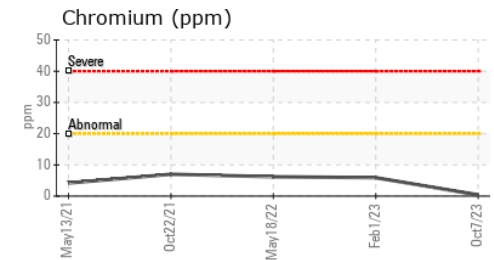
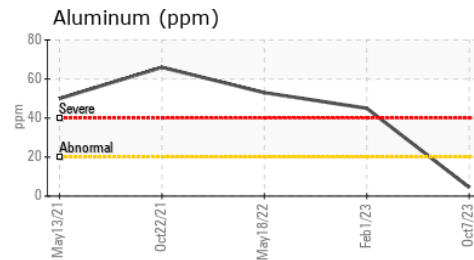
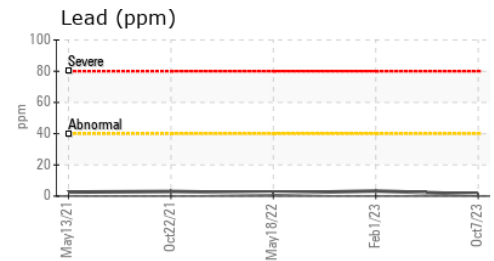
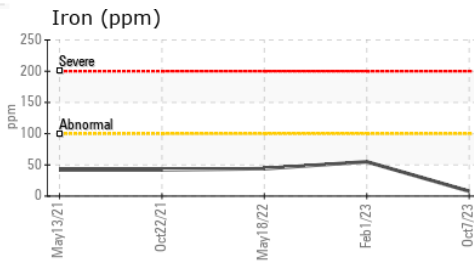
# OIL ANALYSIS REPORT



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	15.6	<b>14.6</b>	12.8	12.9

### GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0044174 **Received** : 16 Oct 2023  
**Lab Number** : **05980633** **Diagnosed** : 17 Oct 2023  
**Unique Number** : 10697928 **Diagnostician** : Wes Davis  
**Test Package** : MOB 2

**GARY INGRAM GRADING & PAVING**  
 1767 GRIFFIN SHOULS RD  
 DADEVILLE, AL  
 US 36853  
 Contact: RON INGRAM  
 ron.ingram@ingrampaving.com  
 T: (256)825-6878  
 F:

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)