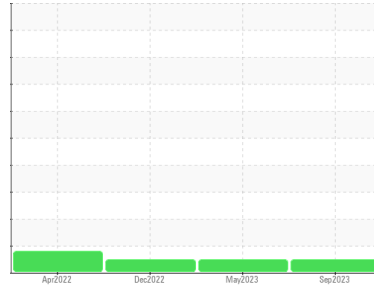


# OIL ANALYSIS REPORT

**Sample Rating Trend**

**NORMAL**


Machine Id

**54**

Component

**Diesel Engine**

Fluid

**PETRO CANADA DURON HP 15W40 (--- GAL)**
**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>PCA0096658</b>	PCA0096628	PCA0088229
Sample Date	Client Info		<b>21 Sep 2023</b>	11 May 2023	28 Dec 2022
Machine Age	mls	Client Info	<b>635284</b>	604428	578367
Oil Age	mls	Client Info	<b>30856</b>	26062	22839
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>33</b>	31	55
Chromium	ppm	ASTM D5185m >20	<b>2</b>	3	3
Nickel	ppm	ASTM D5185m >4	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185m	<b>1</b>	<1	<1
Silver	ppm	ASTM D5185m >3	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m >20	<b>14</b>	17	18
Lead	ppm	ASTM D5185m >40	<b>&lt;1</b>	<1	0
Copper	ppm	ASTM D5185m >330	<b>4</b>	5	6
Tin	ppm	ASTM D5185m >15	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	<1	0

**ADDITIVES**

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>2</b>	3	4
Barium	ppm	ASTM D5185m	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>66</b>	60	56
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	1	<1
Magnesium	ppm	ASTM D5185m	<b>1119</b>	967	886
Calcium	ppm	ASTM D5185m	<b>1311</b>	1123	1198
Phosphorus	ppm	ASTM D5185m	<b>1148</b>	991	1018
Zinc	ppm	ASTM D5185m	<b>1477</b>	1230	1239
Sulfur	ppm	ASTM D5185m	<b>2949</b>	2857	2650

**CONTAMINANTS**

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>8</b>	8	8
Sodium	ppm	ASTM D5185m	<b>3</b>	4	2
Potassium	ppm	ASTM D5185m >20	<b>5</b>	2	3

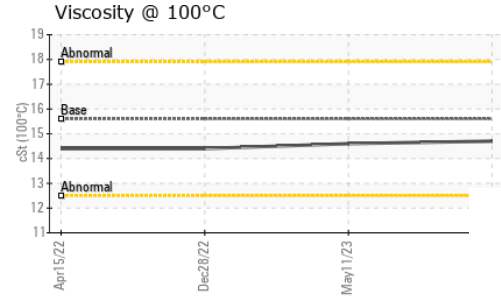
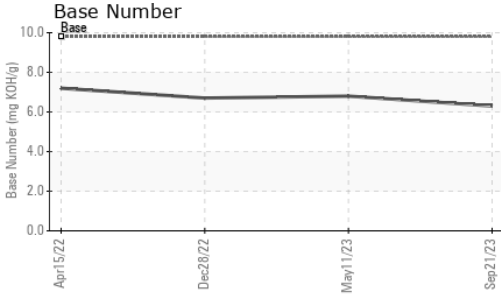
**INFRA-RED**

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>1.1</b>	0.7	0.7
Nitration	Abs/cm	*ASTM D7624 >20	<b>11.3</b>	10.9	10.6
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>24.5</b>	23.0	22.6

**FLUID DEGRADATION**

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>21.5</b>	19.6	19.1
Base Number (BN)	mg KOH/g	ASTM D2896 9.8	<b>6.3</b>	6.8	6.7

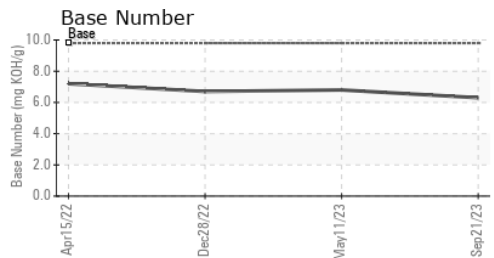
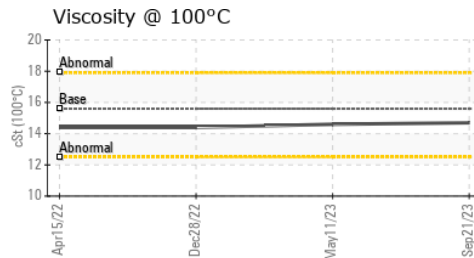
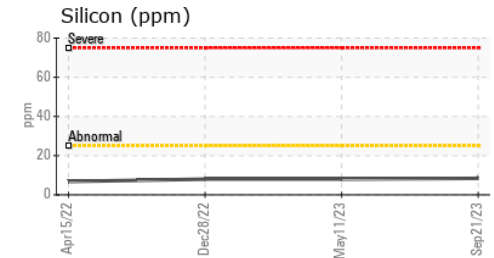
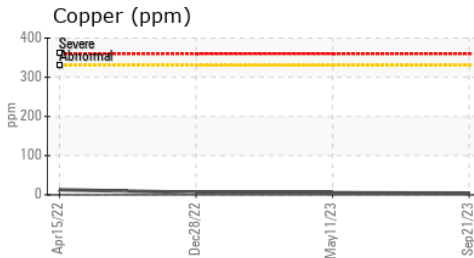
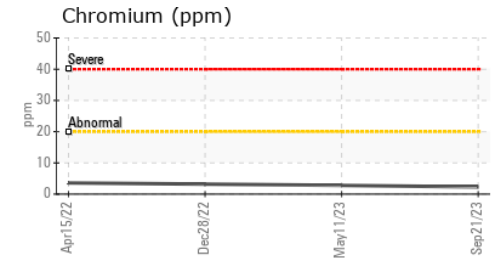
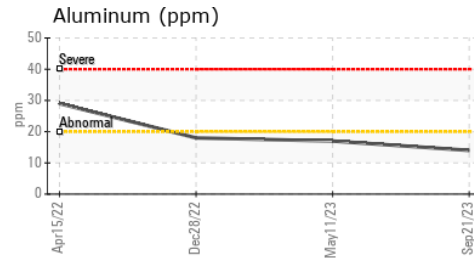
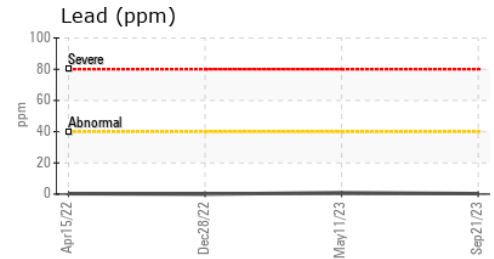
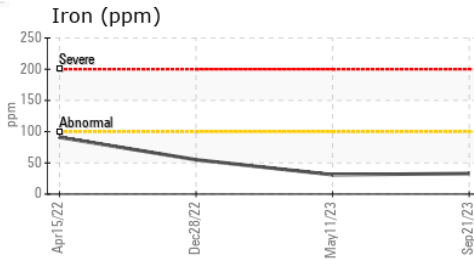
# OIL ANALYSIS REPORT



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>14.7</b>	14.6	14.4

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0096658 **Received** : 04 Oct 2023  
**Lab Number** : **05968582** **Diagnosed** : 04 Oct 2023  
**Unique Number** : 10675133 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: TBN )

**AREA WIDE TRANSPORTATION**  
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 OTTAWA, IL  
 US 61350  
 Contact: JEFF  
 jeff@driveawt.com  
 T: (815)587-2947  
 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)