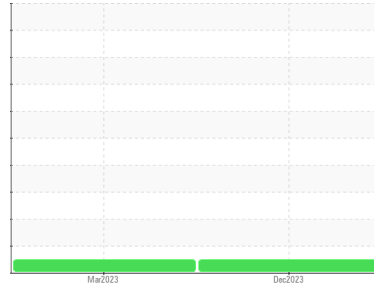


# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**Blue Bird 4805**

Component  
**Diesel Engine**

Fluid  
**PETRO CANADA DURON SHP 10W30 (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

Metal levels are typical for a components first oil change.

### 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>PCA0091746</b>	PCA0071427	---
Sample Date	Client Info		<b>08 Dec 2023</b>	20 Mar 2023	---
Machine Age	mls	Client Info	<b>47298</b>	33620	---
Oil Age	mls	Client Info	<b>13678</b>	33620	---
Oil Changed	Client Info		<b>Changed</b>	Changed	---
Sample Status			<b>NORMAL</b>	NORMAL	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>3.0	<b>&lt;1.0</b>	<1.0	---
Water	WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol	WC Method		<b>NEG</b>	NEG	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >90	<b>59</b>	53	---
Chromium	ppm	ASTM D5185m >20	<b>1</b>	<1	---
Nickel	ppm	ASTM D5185m >2	<b>&lt;1</b>	0	---
Titanium	ppm	ASTM D5185m >2	<b>0</b>	0	---
Silver	ppm	ASTM D5185m >2	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m >20	<b>12</b>	5	---
Lead	ppm	ASTM D5185m >40	<b>&lt;1</b>	0	---
Copper	ppm	ASTM D5185m >330	<b>3</b>	2	---
Tin	ppm	ASTM D5185m >15	<b>0</b>	<1	---
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	---
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 2	<b>&lt;1</b>	9	---
Barium	ppm	ASTM D5185m 0	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m 50	<b>59</b>	62	---
Manganese	ppm	ASTM D5185m 0	<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185m 950	<b>898</b>	980	---
Calcium	ppm	ASTM D5185m 1050	<b>984</b>	1096	---
Phosphorus	ppm	ASTM D5185m 995	<b>861</b>	1058	---
Zinc	ppm	ASTM D5185m 1180	<b>1131</b>	1302	---
Sulfur	ppm	ASTM D5185m 2600	<b>2647</b>	3519	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>6</b>	7	---
Sodium	ppm	ASTM D5185m	<b>2</b>	1	---
Potassium	ppm	ASTM D5185m >20	<b>33</b>	5	---

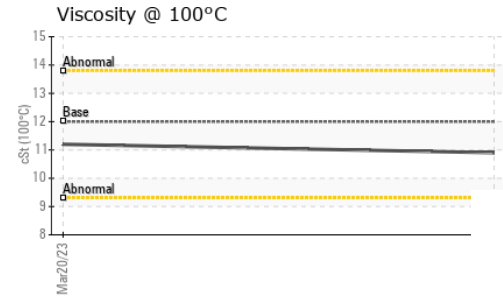
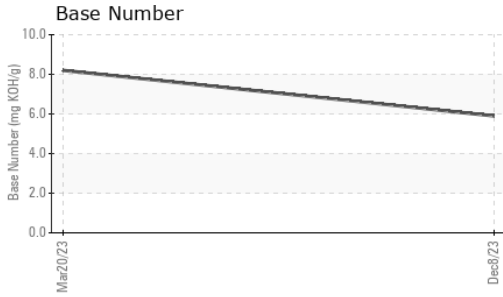
## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >6	<b>1</b>	0.9	---
Nitration	Abs/cm	*ASTM D7624 >20	<b>12.4</b>	11.1	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>25.1</b>	20.9	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>23.3</b>	17.4	---
Base Number (BN)	mg KOH/g	ASTM D2896	<b>5.9</b>	8.2	---

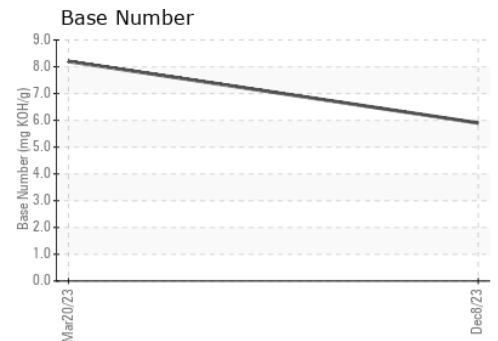
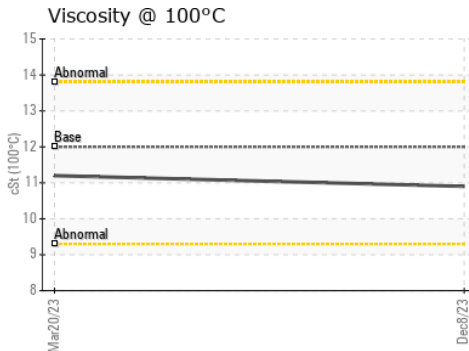
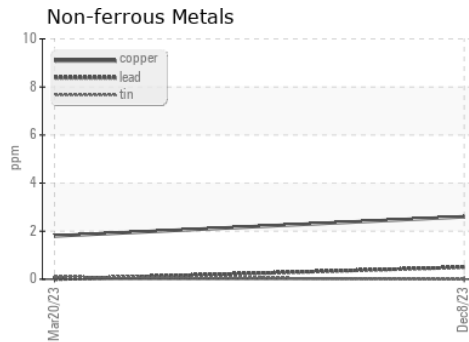
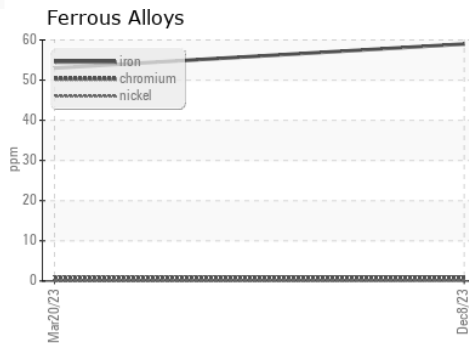
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	12.00	<b>10.9</b>	11.2

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0091746 **Received** : 20 Dec 2023  
**Lab Number** : 06040295 **Diagnosed** : 21 Dec 2023  
**Unique Number** : 10795524 **Diagnostician** : Angela Borella  
**Test Package** : FLEET ( Additional Tests: FT-IR(Diff) )

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)

**ICSB588 - Kankakee**  
 751 Eastgate Industrial Parkway  
 Kankakee, IL  
 US 60901  
 Contact: Zoltan Sziky  
 z.sziky@illinois-central.com  
 T: (815)295-8231  
 F: