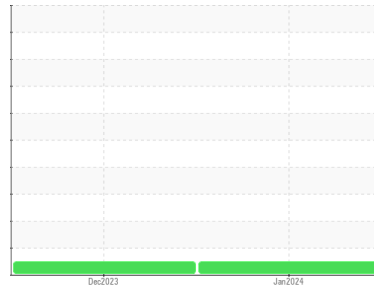


# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Machine Id  
**BLUE BIRD 003039**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 10W30 (18)**

### 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>PCA0112475</b>	PCA0091575	---
Sample Date	Client Info		<b>17 Jan 2024</b>	08 Dec 2023	---
Machine Age	mls	Client Info	<b>131426</b>	124460	---
Oil Age	mls	Client Info	<b>6966</b>	124460	---
Oil Changed	Client Info		<b>Changed</b>	Changed	---
Sample Status			<b>NORMAL</b>	NORMAL	---

### CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<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 >100	<b>29</b>	93	---
Chromium	ppm	ASTM D5185m >20	<b>&lt;1</b>	2	---
Nickel	ppm	ASTM D5185m >4	<b>0</b>	<1	---
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	0	---
Silver	ppm	ASTM D5185m >3	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m >20	<b>2</b>	7	---
Lead	ppm	ASTM D5185m >40	<b>&lt;1</b>	<1	---
Copper	ppm	ASTM D5185m >330	<b>1</b>	2	---
Tin	ppm	ASTM D5185m >15	<b>0</b>	<1	---
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	---
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	---

### ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 2	<b>0</b>	3	---
Barium	ppm	ASTM D5185m 0	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m 50	<b>63</b>	69	---
Manganese	ppm	ASTM D5185m 0	<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185m 950	<b>1033</b>	1059	---
Calcium	ppm	ASTM D5185m 1050	<b>1183</b>	1189	---
Phosphorus	ppm	ASTM D5185m 995	<b>1133</b>	1049	---
Zinc	ppm	ASTM D5185m 1180	<b>1372</b>	1343	---
Sulfur	ppm	ASTM D5185m 2600	<b>3645</b>	2763	---

### CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>4</b>	6	---
Sodium	ppm	ASTM D5185m	<b>3</b>	1	---
Potassium	ppm	ASTM D5185m >20	<b>3</b>	7	---

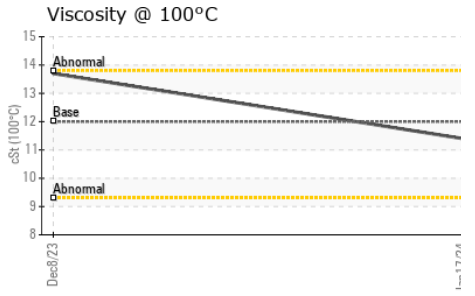
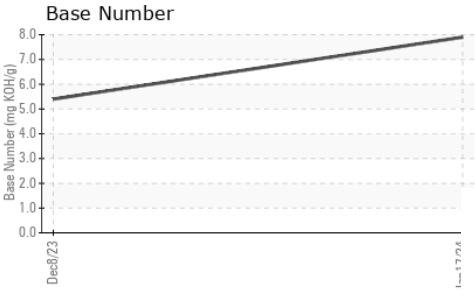
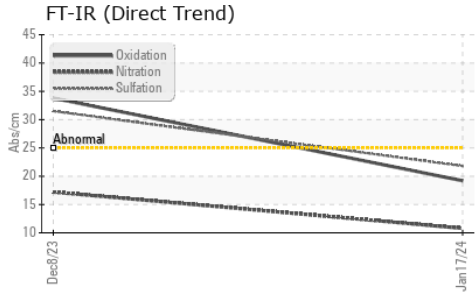
### INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0.8</b>	1.5	---
Nitration	Abs/cm	*ASTM D7624 >20	<b>10.8</b>	17.2	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>21.8</b>	31.5	---

### FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>19.2</b>	33.8	---
Base Number (BN)	mg KOH/g	ASTM D2896	<b>7.9</b>	5.4	---

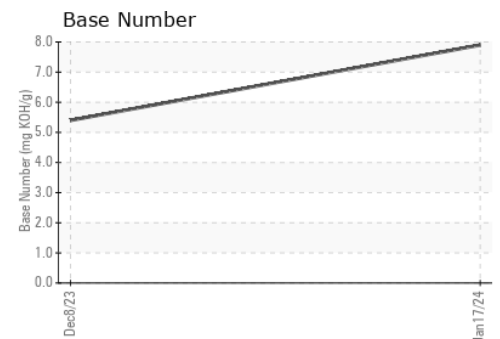
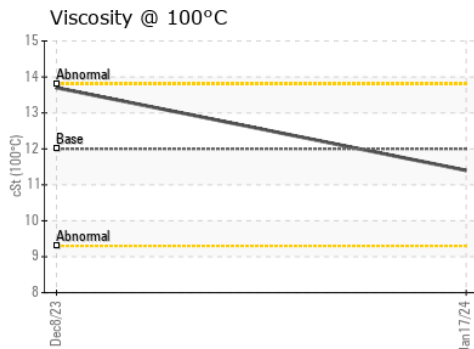
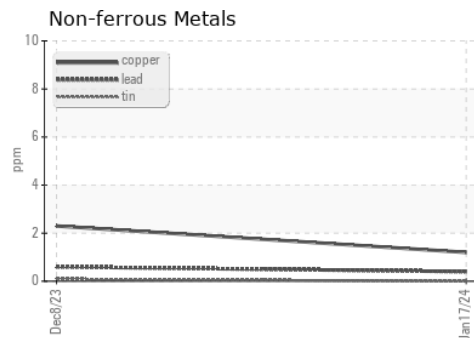
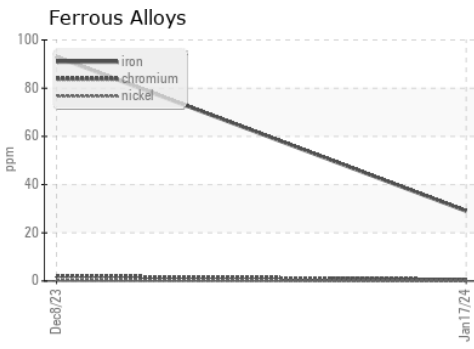
# OIL ANALYSIS REPORT



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	11.4	13.7

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0112475      **Received** : 20 Jun 2024  
**Lab Number** : **06215320**      **Tested** : 21 Jun 2024  
**Unique Number** : 11088184      **Diagnosed** : 21 Jun 2024 - Wes Davis  
**Test Package** : FLEET

**ICSB370 - Alton**  
 4525 North Alby Road  
 Godfrey, IL  
 US 62035  
 Contact: Chad Ingold  
 c.ingold@illinois-central.com  
 T: (618)466-5400  
 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)