

# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**Walgreens-Reefer**  
 Machine ID  
**[Walgreens-Reefer] 136C821008**  
 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 new component breaking in.

**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>PCA0112867</b>	---	---
Sample Date	Client Info		<b>24 Jan 2024</b>	---	---
Machine Age	hrs Client Info		<b>557</b>	---	---
Oil Age	hrs Client Info		<b>101</b>	---	---
Oil Changed	Client Info		<b>Changed</b>	---	---
Sample Status			<b>NORMAL</b>	---	---

## CONTAMINATION

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

## WEAR METALS

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

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	2	<b>8</b>	---	---
Barium	ppm ASTM D5185m	0	<b>0</b>	---	---
Molybdenum	ppm ASTM D5185m	50	<b>58</b>	---	---
Manganese	ppm ASTM D5185m	0	<b>0</b>	---	---
Magnesium	ppm ASTM D5185m	950	<b>971</b>	---	---
Calcium	ppm ASTM D5185m	1050	<b>1026</b>	---	---
Phosphorus	ppm ASTM D5185m	995	<b>1018</b>	---	---
Zinc	ppm ASTM D5185m	1180	<b>1235</b>	---	---
Sulfur	ppm ASTM D5185m	2600	<b>3234</b>	---	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m	>25	<b>2</b>	---	---
Sodium	ppm ASTM D5185m		<b>1</b>	---	---
Potassium	ppm ASTM D5185m	>20	<b>0</b>	---	---

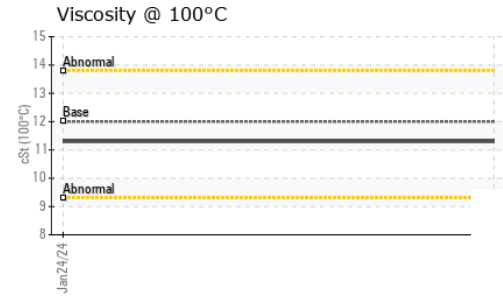
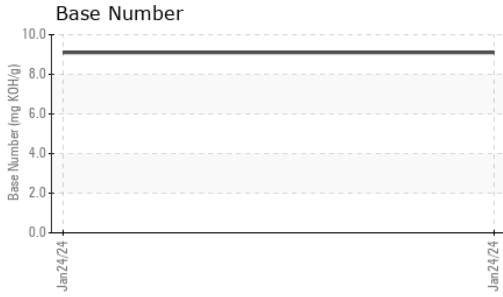
## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	% *ASTM D7844	>3	<b>0.1</b>	---	---
Nitration	Abs/cm *ASTM D7624	>20	<b>4.6</b>	---	---
Sulfation	Abs/.1mm *ASTM D7415	>30	<b>17.4</b>	---	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414	>25	<b>13.5</b>	---	---
Base Number (BN)	mg KOH/g ASTM D2896		<b>9.1</b>	---	---

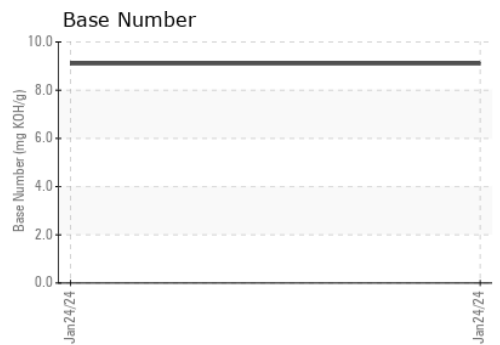
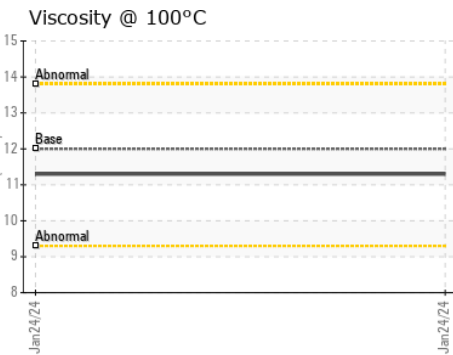
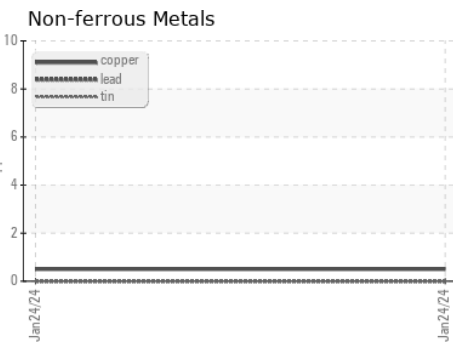
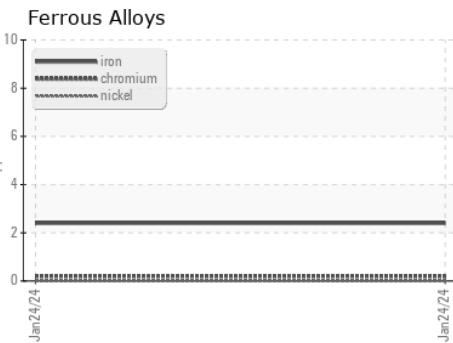
# OIL ANALYSIS REPORT



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

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	12.00	<b>11.3</b>	---	---

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0112867 **Recieved** : 30 Jan 2024  
**Lab Number** : **06073482** **Diagnosed** : 30 Jan 2024  
**Unique Number** : 10850159 **Diagnostician** : Wes Davis  
**Test Package** : FLEET

**Transervice - Shop 1364 - Berkeley-Mt. Vernon**  
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 Mt. Vernon, IL  
 US 62864  
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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)