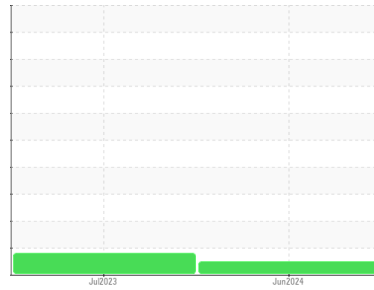


# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Machine Id  
**FREIGHTLINER 235**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 10W30 (11 GAL)**

### 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>PCA0115430</b>	PCA0100632	---
Sample Date	Client Info			<b>13 Jun 2024</b>	14 Jul 2023	---
Machine Age	mls	Client Info		<b>155555</b>	48307	---
Oil Age	mls	Client Info		<b>50000</b>	47369	---
Oil Changed	Client Info			<b>Changed</b>	Changed	---
Sample Status				<b>NORMAL</b>	ABNORMAL	---

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	>80	<b>62</b>	105	---
Chromium	ppm	ASTM D5185m	>5	<b>2</b>	5	---
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	1	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	---
Aluminum	ppm	ASTM D5185m	>30	<b>12</b>	50	---
Lead	ppm	ASTM D5185m	>30	<b>0</b>	3	---
Copper	ppm	ASTM D5185m	>150	<b>21</b>	▲ 453	---
Tin	ppm	ASTM D5185m	>5	<b>1</b>	6	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	---
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	---

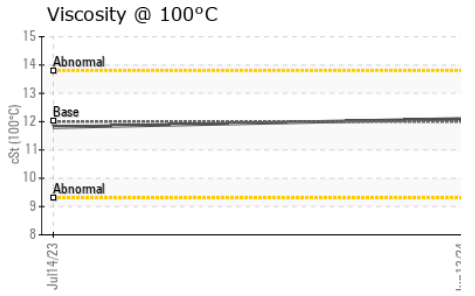
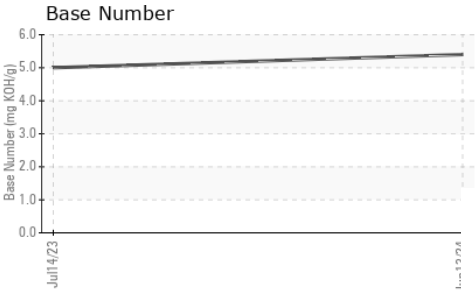
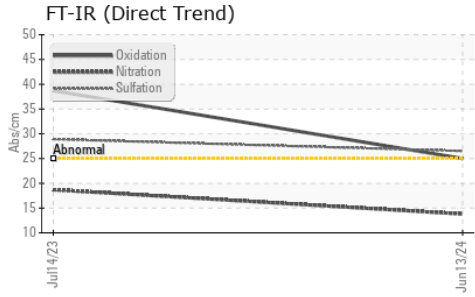
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	<b>5</b>	28	---
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	50	<b>66</b>	49	---
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	4	---
Magnesium	ppm	ASTM D5185m	950	<b>1036</b>	584	---
Calcium	ppm	ASTM D5185m	1050	<b>1262</b>	2026	---
Phosphorus	ppm	ASTM D5185m	995	<b>1115</b>	805	---
Zinc	ppm	ASTM D5185m	1180	<b>1432</b>	972	---
Sulfur	ppm	ASTM D5185m	2600	<b>3058</b>	2163	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	<b>7</b>	10	---
Sodium	ppm	ASTM D5185m		<b>2</b>	8	---
Potassium	ppm	ASTM D5185m	>20	<b>25</b>	150	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	<b>1.6</b>	1.2	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>13.8</b>	18.7	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>26.5</b>	28.9	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>25.0</b>	38.7	---
Base Number (BN)	mg KOH/g	ASTM D2896		<b>5.4</b>	5.0	---

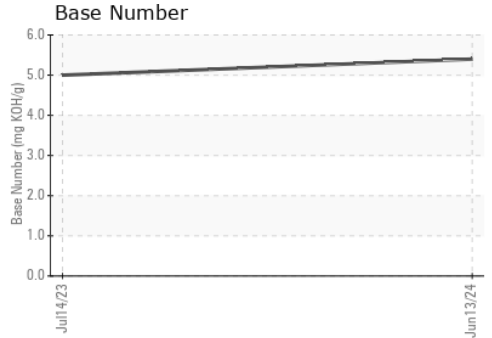
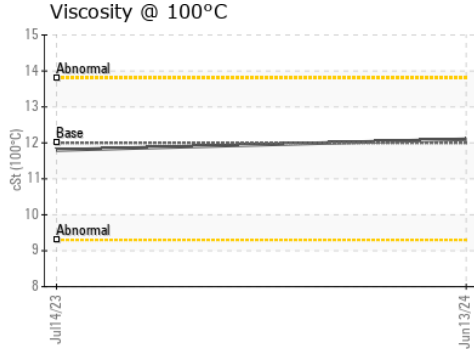
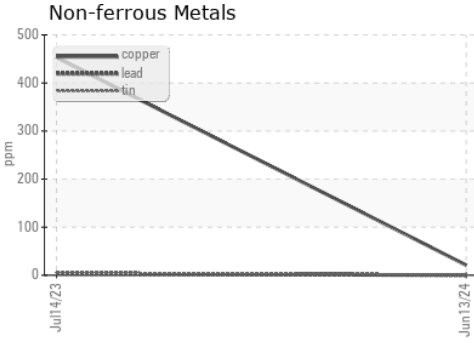
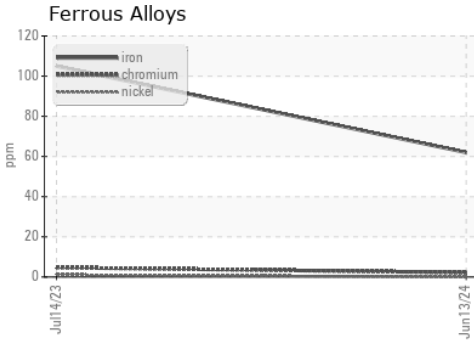
# OIL ANALYSIS REPORT



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>12.1</b>	11.8	---

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0115430      **Received** : 18 Jul 2024  
**Lab Number** : **06240076**      **Tested** : 19 Jul 2024  
**Unique Number** : 11128910      **Diagnosed** : 20 Jul 2024 - Don Baldrige  
**Test Package** : FLEET

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)

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 Pineville, NC  
 US 28134  
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 F: