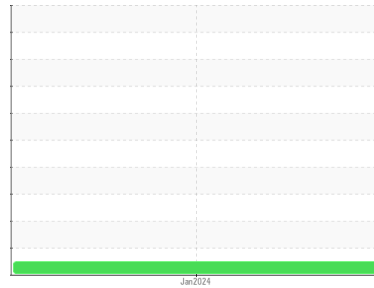


# OIL ANALYSIS REPORT

**Sample Rating Trend**

**NORMAL**


Machine Id  
**630783**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 10W30 (--- QTS)**

**DIAGNOSIS**

**Recommendation**  
 Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

**Wear**  
 Metal levels are typical for a components first oil change.

**Contamination**  
 Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. 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>PCA0110149</b>	---	---
Sample Date	Client Info		<b>26 Jan 2024</b>	---	---
Machine Age	mls Client Info		<b>95419</b>	---	---
Oil Age	mls Client Info		<b>95419</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>71</b>	---	---
Chromium	ppm ASTM D5185m	>20	<b>&lt;1</b>	---	---
Nickel	ppm ASTM D5185m	>4	<b>0</b>	---	---
Titanium	ppm ASTM D5185m		<b>0</b>	---	---
Silver	ppm ASTM D5185m	>3	<b>0</b>	---	---
Aluminum	ppm ASTM D5185m	>20	<b>24</b>	---	---
Lead	ppm ASTM D5185m	>40	<b>0</b>	---	---
Copper	ppm ASTM D5185m	>330	<b>12</b>	---	---
Tin	ppm ASTM D5185m	>15	<b>1</b>	---	---
Vanadium	ppm ASTM D5185m		<b>0</b>	---	---
Cadmium	ppm ASTM D5185m		<b>0</b>	---	---

**ADDITIVES**

	method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	2	<b>5</b>	---	---
Barium	ppm ASTM D5185m	0	<b>0</b>	---	---
Molybdenum	ppm ASTM D5185m	50	<b>68</b>	---	---
Manganese	ppm ASTM D5185m	0	<b>2</b>	---	---
Magnesium	ppm ASTM D5185m	950	<b>989</b>	---	---
Calcium	ppm ASTM D5185m	1050	<b>1209</b>	---	---
Phosphorus	ppm ASTM D5185m	995	<b>1108</b>	---	---
Zinc	ppm ASTM D5185m	1180	<b>1353</b>	---	---
Sulfur	ppm ASTM D5185m	2600	<b>3354</b>	---	---

**CONTAMINANTS**

	method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m	>25	<b>15</b>	---	---
Sodium	ppm ASTM D5185m		<b>4</b>	---	---
Potassium	ppm ASTM D5185m	>20	<b>59</b>	---	---

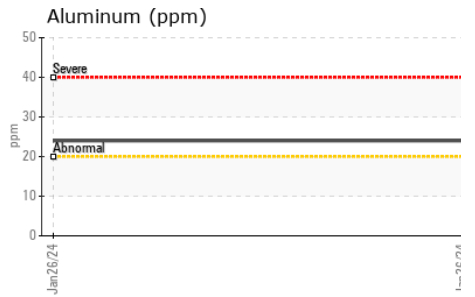
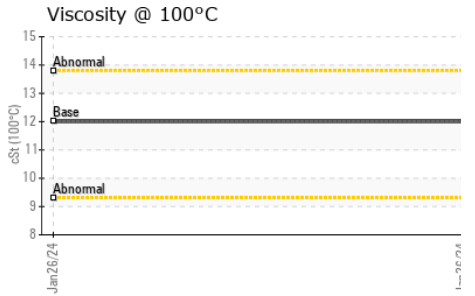
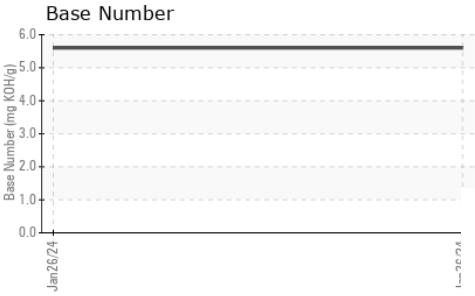
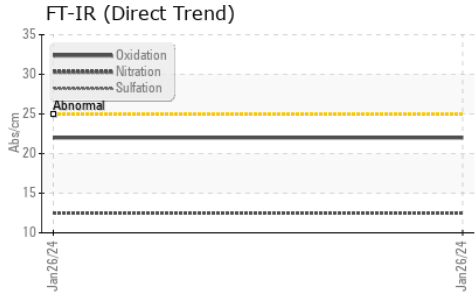
**INFRA-RED**

	method	limit/base	current	history1	history2
Soot %	% *ASTM D7844	>3	<b>0.6</b>	---	---
Nitration	Abs/cm *ASTM D7624	>20	<b>12.5</b>	---	---
Sulfation	Abs/.1mm *ASTM D7415	>30	<b>25.0</b>	---	---

**FLUID DEGRADATION**

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414	>25	<b>22.0</b>	---	---
Base Number (BN)	mg KOH/g ASTM D2896		<b>5.6</b>	---	---

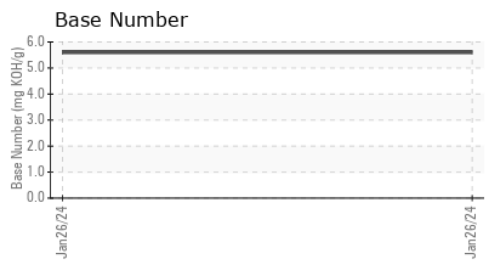
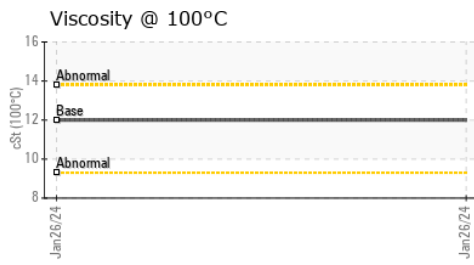
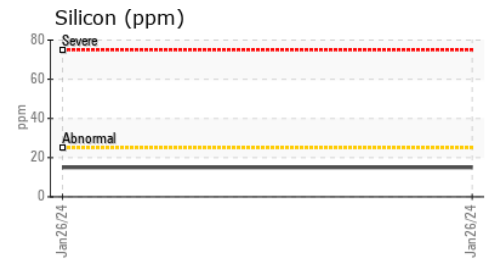
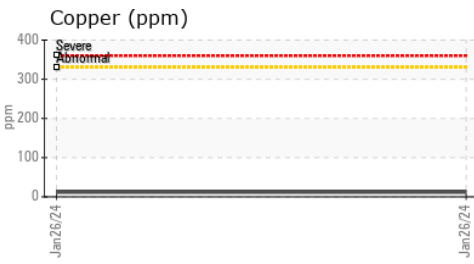
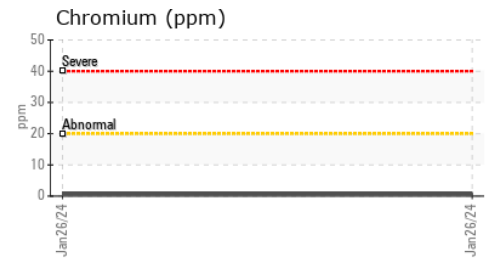
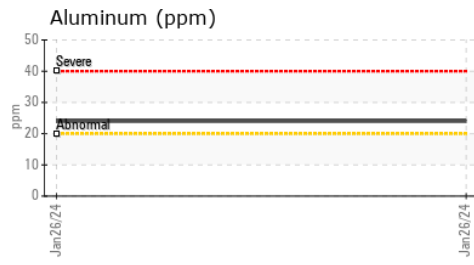
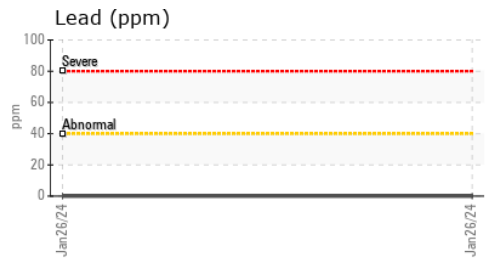
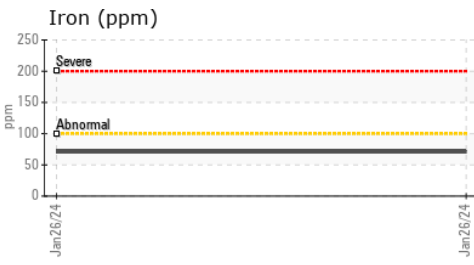
# OIL ANALYSIS REPORT



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	12.0	---

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0110149      **Received** : 12 Apr 2024  
**Lab Number** : **06147082**      **Tested** : 15 Apr 2024  
**Unique Number** : 10977160      **Diagnosed** : 15 Apr 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: TBN )

**MILLER TRUCK LEASING #121**  
 107 HOW LANE  
 NEW BRUNSWICK, NJ  
 US 08901  
 Contact: Anthony Cursi  
 acursi@millertransgroup.com  
 T: (732)358-4027  
 F: (732)400-8475

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)