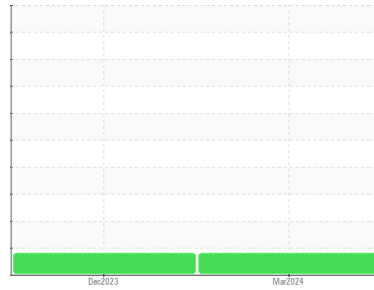


# OIL ANALYSIS REPORT

## Sample Rating Trend



**WEAR**



Machine Id  
**1224122**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 10W30 (--- GAL)**

### DIAGNOSIS

#### Recommendation

The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

#### Wear

The aluminum level is abnormal. All other 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 acceptable for the time in service.

### SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>PCA0119168</b>	PCA0111381	---
Sample Date	Client Info	<b>27 Mar 2024</b>	28 Dec 2023	---
Machine Age	mls Client Info	<b>172944</b>	171023	---
Oil Age	mls Client Info	<b>0</b>	0	---
Oil Changed	Client Info	<b>Changed</b>	Changed	---
Sample Status		<b>ABNORMAL</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 >100	<b>28</b>	26	---
Chromium	ppm ASTM D5185m >20	<b>2</b>	1	---
Nickel	ppm ASTM D5185m >4	<b>&lt;1</b>	0	---
Titanium	ppm ASTM D5185m	<b>&lt;1</b>	<1	---
Silver	ppm ASTM D5185m >3	<b>&lt;1</b>	0	---
Aluminum	ppm ASTM D5185m >20	<b>▲ 33</b>	▲ 32	---
Lead	ppm ASTM D5185m >40	<b>&lt;1</b>	0	---
Copper	ppm ASTM D5185m >330	<b>2</b>	2	---
Tin	ppm ASTM D5185m >15	<b>&lt;1</b>	0	---
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>29</b>	21	---
Barium	ppm ASTM D5185m 0	<b>0</b>	0	---
Molybdenum	ppm ASTM D5185m 50	<b>68</b>	62	---
Manganese	ppm ASTM D5185m 0	<b>&lt;1</b>	<1	---
Magnesium	ppm ASTM D5185m 950	<b>906</b>	883	---
Calcium	ppm ASTM D5185m 1050	<b>1116</b>	1161	---
Phosphorus	ppm ASTM D5185m 995	<b>996</b>	1000	---
Zinc	ppm ASTM D5185m 1180	<b>1236</b>	1210	---
Sulfur	ppm ASTM D5185m 2600	<b>3267</b>	3132	---

### CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	<b>6</b>	4	---
Sodium	ppm ASTM D5185m	<b>1</b>	2	---
Potassium	ppm ASTM D5185m >20	<b>4</b>	0	---

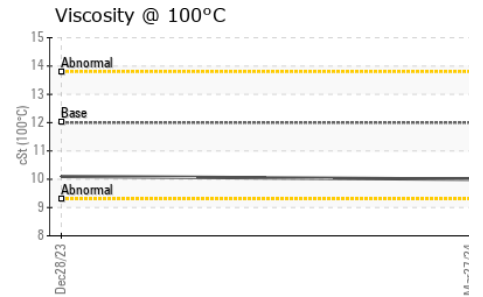
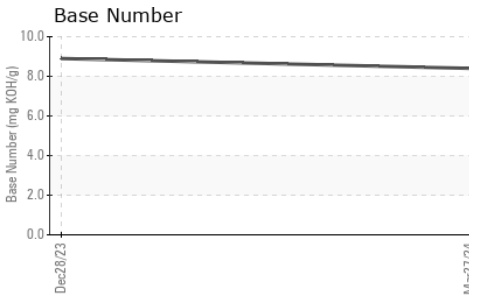
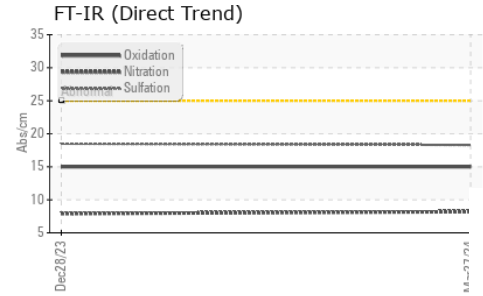
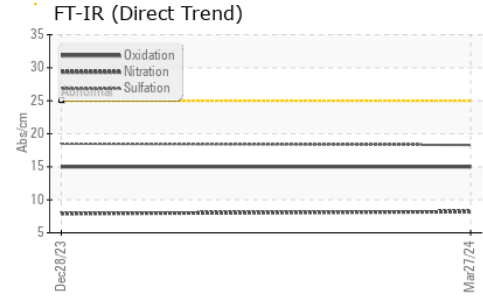
### INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	<b>0.3</b>	0.3	---
Nitration	Abs/cm *ASTM D7624 >20	<b>8.2</b>	7.9	---
Sulfation	Abs/.1mm *ASTM D7415 >30	<b>18.3</b>	18.5	---

### FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	<b>15.0</b>	15.0	---
Base Number (BN)	mg KOH/g ASTM D2896	<b>8.4</b>	8.9	---

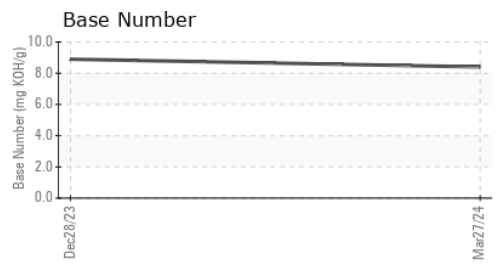
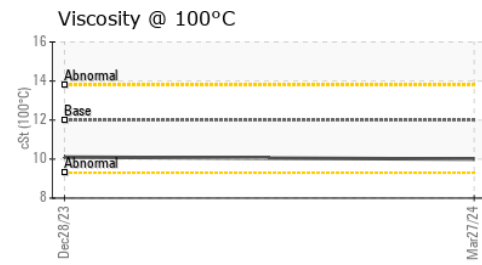
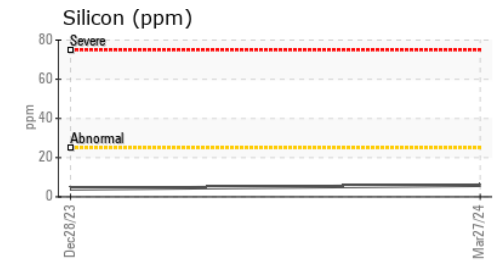
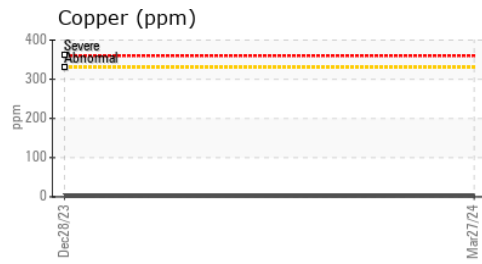
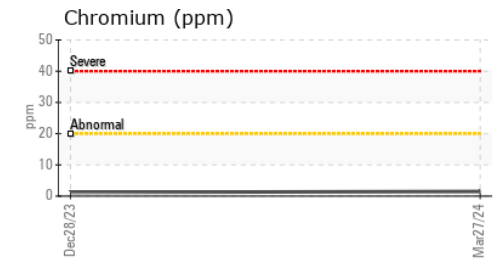
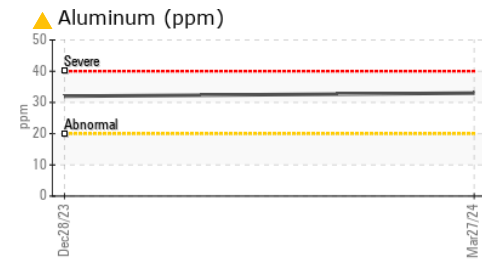
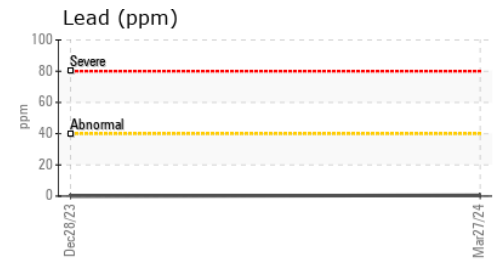
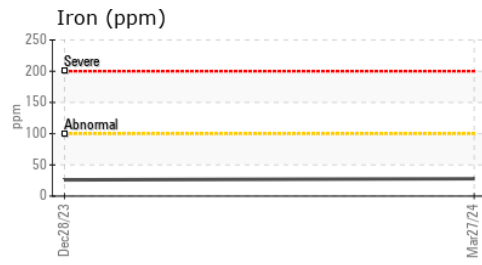
# OIL ANALYSIS REPORT



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	10.0	10.1

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0119168      **Received** : 22 May 2024  
**Lab Number** : 06188494      **Tested** : 24 May 2024  
**Unique Number** : 11045246      **Diagnosed** : 24 May 2024 - Sean Felton  
**Test Package** : MOB 1 ( Additional Tests: TBN )

**MILLER TRUCK LEASING #129**  
 3 LINDEN AVE E  
 JERSEY CITY, NJ  
 US 07305  
 Contact: BILL CUCCIA  
 wcuccia@millertransgroup.com

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)