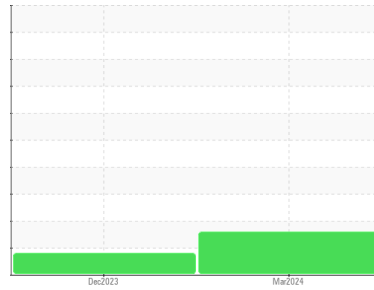


# OIL ANALYSIS REPORT

## Sample Rating Trend



**WEAR**



Machine Id  
**142238**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 10W30 (--- GAL)**

### DIAGNOSIS

#### ▲ Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

#### ▲ Wear

Piston and cylinder wear is indicated.

#### 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>PCA0119171</b>	PCA0111369	---
Sample Date	Client Info		<b>21 Mar 2024</b>	18 Dec 2023	---
Machine Age	mls	Client Info	<b>232886</b>	224982	---
Oil Age	mls	Client Info	<b>0</b>	4000	---
Oil Changed	Client Info		<b>N/A</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>▲ 119</b>	69	---
Chromium	ppm	ASTM D5185m >20	<b>3</b>	2	---
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>▲ 56</b>	<b>▲ 35</b>	---
Lead	ppm	ASTM D5185m >40	<b>1</b>	0	---
Copper	ppm	ASTM D5185m >330	<b>4</b>	3	---
Tin	ppm	ASTM D5185m >15	<b>&lt;1</b>	0	---
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>11</b>	29	---
Barium	ppm	ASTM D5185m 0	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m 50	<b>67</b>	54	---
Manganese	ppm	ASTM D5185m 0	<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185m 950	<b>932</b>	776	---
Calcium	ppm	ASTM D5185m 1050	<b>1168</b>	1108	---
Phosphorus	ppm	ASTM D5185m 995	<b>1022</b>	895	---
Zinc	ppm	ASTM D5185m 1180	<b>1273</b>	1091	---
Sulfur	ppm	ASTM D5185m 2600	<b>3394</b>	3300	---

### CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>12</b>	7	---
Sodium	ppm	ASTM D5185m	<b>3</b>	7	---
Potassium	ppm	ASTM D5185m >20	<b>8</b>	8	---

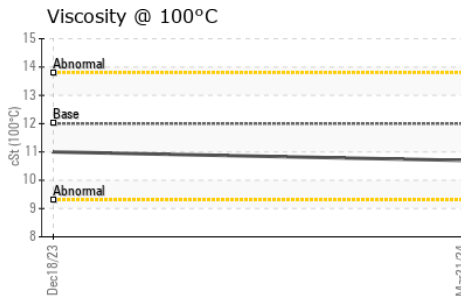
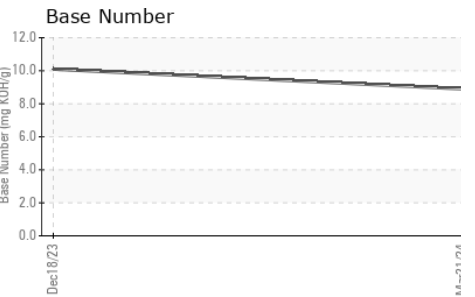
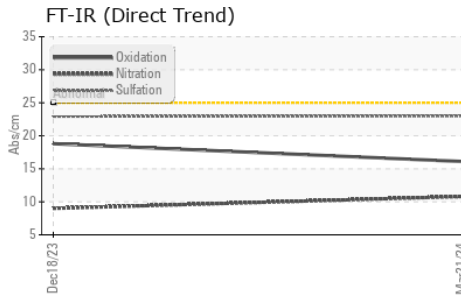
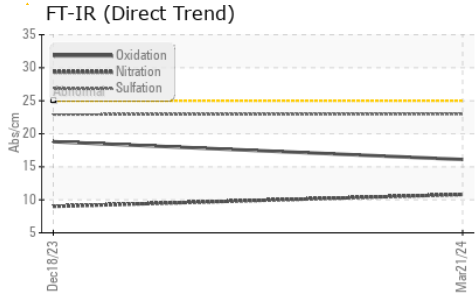
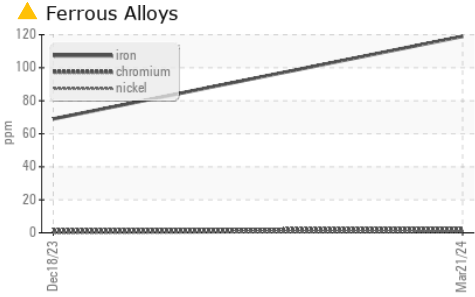
### INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>2.7</b>	1.5	---
Nitration	Abs/cm	*ASTM D7624 >20	<b>10.8</b>	9.0	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>23.0</b>	22.9	---

### FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>16.1</b>	18.8	---
Base Number (BN)	mg KOH/g	ASTM D2896	<b>8.9</b>	10.1	---

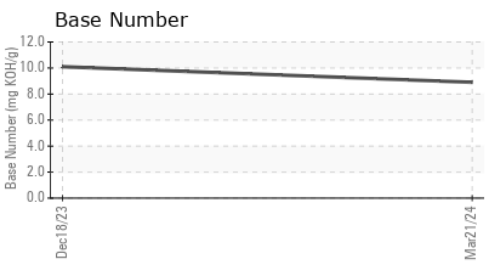
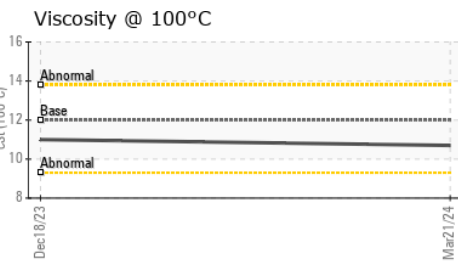
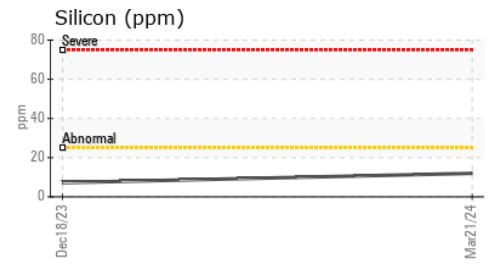
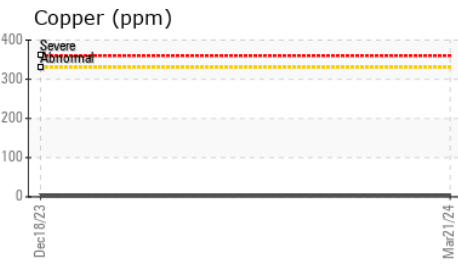
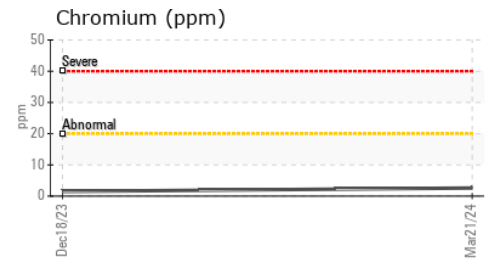
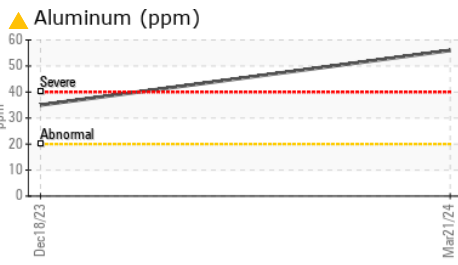
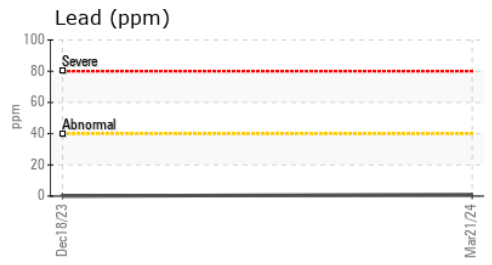
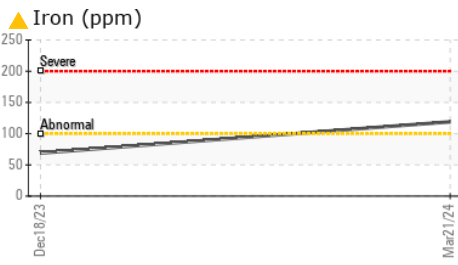
# OIL ANALYSIS REPORT



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	10.7	11.0

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0119171      **Received** : 22 May 2024  
**Lab Number** : 06188510      **Tested** : 24 May 2024  
**Unique Number** : 11045262      **Diagnosed** : 28 May 2024 - Jonathan Hester  
**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)