

# OIL ANALYSIS REPORT

**Sample Rating Trend**

**NORMAL**


Machine Id

**1524211**

Component

**Diesel Engine**

Fluid

**PETRO CANADA DURON SHP 10W30 (--- GAL)**
**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**

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>PCA0111415</b>	---	---
Sample Date	Client Info	<b>02 Apr 2024</b>	---	---
Machine Age	mls	Client Info	<b>280236</b>	---
Oil Age	mls	Client Info	<b>280236</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>33</b>	---	---
Chromium	ppm	ASTM D5185m	>20	<b>2</b>	---	---
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	---	---
Titanium	ppm	ASTM D5185m		<b>0</b>	---	---
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	---	---
Aluminum	ppm	ASTM D5185m	>20	<b>5</b>	---	---
Lead	ppm	ASTM D5185m	>40	<b>0</b>	---	---
Copper	ppm	ASTM D5185m	>330	<b>1</b>	---	---
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</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>0</b>	---	---
Barium	ppm	ASTM D5185m	0	<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185m	50	<b>75</b>	---	---
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	---	---
Magnesium	ppm	ASTM D5185m	950	<b>943</b>	---	---
Calcium	ppm	ASTM D5185m	1050	<b>1195</b>	---	---
Phosphorus	ppm	ASTM D5185m	995	<b>1036</b>	---	---
Zinc	ppm	ASTM D5185m	1180	<b>1237</b>	---	---
Sulfur	ppm	ASTM D5185m	2600	<b>3346</b>	---	---

**CONTAMINANTS**

method	limit/base	current	history1	history2
--------	------------	---------	----------	----------

Silicon	ppm	ASTM D5185m	>25	<b>6</b>	---	---
Sodium	ppm	ASTM D5185m		<b>2</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	---	---

**INFRA-RED**

method	limit/base	current	history1	history2
--------	------------	---------	----------	----------

Soot %	%	*ASTM D7844	>3	<b>0.9</b>	---	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>11.8</b>	---	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>21.3</b>	---	---

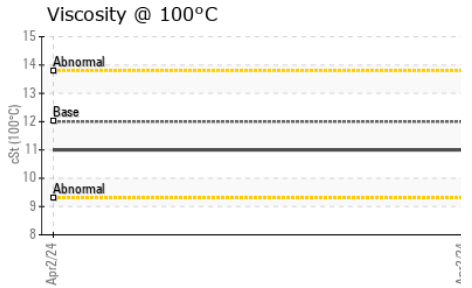
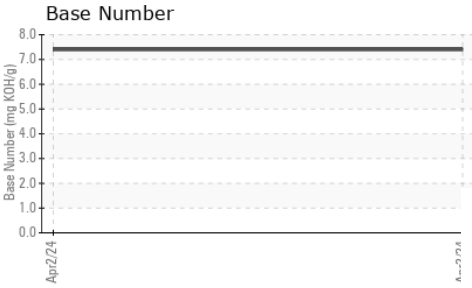
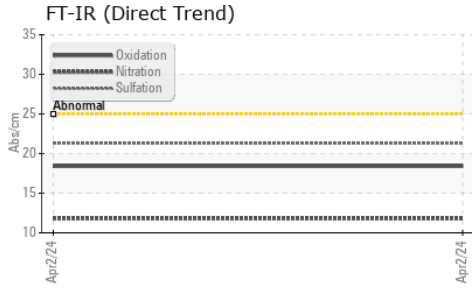
**FLUID DEGRADATION**

method	limit/base	current	history1	history2
--------	------------	---------	----------	----------

Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>18.4</b>	---	---
Base Number (BN)	mg KOH/g	ASTM D2896		<b>7.4</b>	---	---



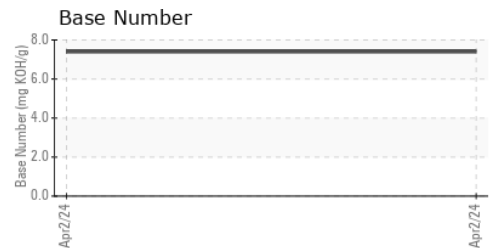
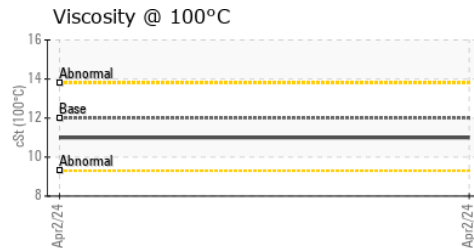
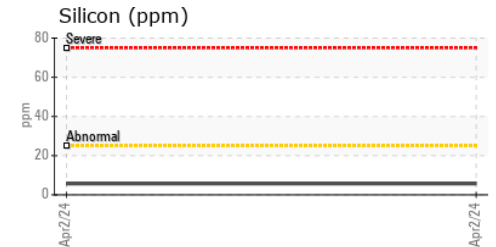
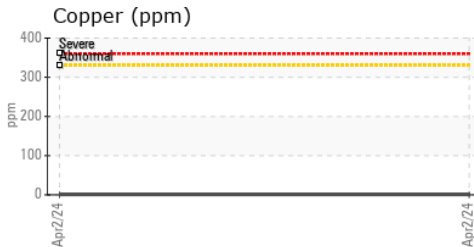
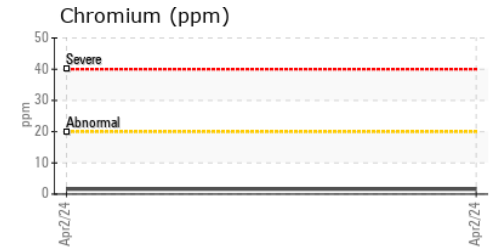
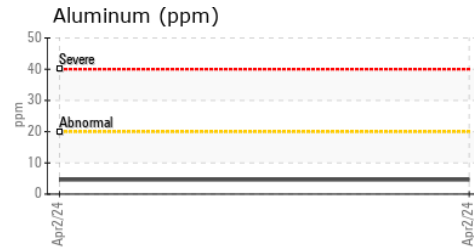
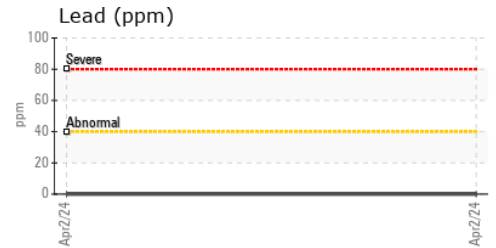
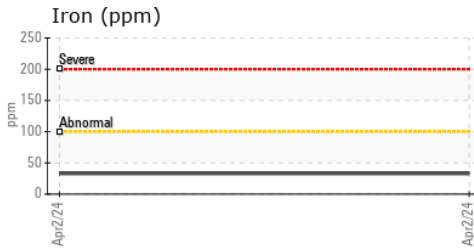
# OIL ANALYSIS REPORT



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	11.0	---

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0111415      **Received** : 22 May 2024  
**Lab Number** : 06188347      **Tested** : 24 May 2024  
**Unique Number** : 11045099      **Diagnosed** : 24 May 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: TBN )

**MILLER TRUCK LEASING #128**  
 529 CEDAR LN  
 FLORENCE, NJ  
 US 08518

Contact: PETER SHEPARD  
 pshepard@millertransgroup.com  
 T: (609)499-3601

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)