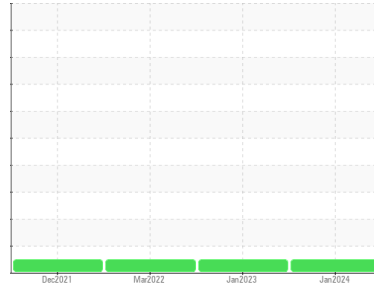


# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**607332**  
 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

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>PCA0110653</b>	PCA0083867	PCA0061035
Sample Date	Client Info		<b>28 Jan 2024</b>	20 Jan 2023	03 Mar 2022
Machine Age	mls	Client Info	<b>189920</b>	149799	112067
Oil Age	mls	Client Info	<b>7269</b>	37732	62801
Oil Changed	Client Info		<b>Not Chngd</b>	Changed	Changed
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water	WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol	WC Method		<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	<b>12</b>	32	40
Chromium	ppm	ASTM D5185m >20	<b>&lt;1</b>	4	6
Nickel	ppm	ASTM D5185m >4	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m	<b>2</b>	<1	<1
Silver	ppm	ASTM D5185m >3	<b>&lt;1</b>	0	<1
Aluminum	ppm	ASTM D5185m >20	<b>5</b>	29	45
Lead	ppm	ASTM D5185m >40	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185m >330	<b>3</b>	20	45
Tin	ppm	ASTM D5185m >15	<b>0</b>	2	3
Antimony	ppm	ASTM D5185m	<b>---</b>	---	---
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 2	<b>12</b>	2	4
Barium	ppm	ASTM D5185m 0	<b>25</b>	0	0
Molybdenum	ppm	ASTM D5185m 50	<b>59</b>	63	61
Manganese	ppm	ASTM D5185m 0	<b>0</b>	<1	1
Magnesium	ppm	ASTM D5185m 950	<b>781</b>	990	1009
Calcium	ppm	ASTM D5185m 1050	<b>1113</b>	1167	1161
Phosphorus	ppm	ASTM D5185m 995	<b>1013</b>	971	968
Zinc	ppm	ASTM D5185m 1180	<b>1122</b>	1302	1202
Sulfur	ppm	ASTM D5185m 2600	<b>3152</b>	2647	1917

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>3</b>	6	6
Sodium	ppm	ASTM D5185m	<b>0</b>	4	3
Potassium	ppm	ASTM D5185m >20	<b>8</b>	52	108

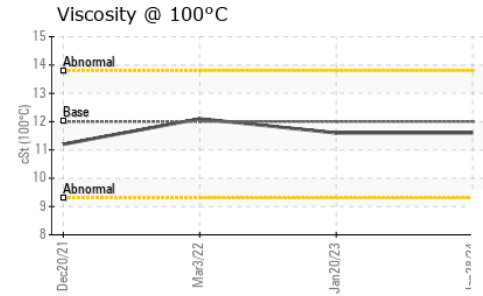
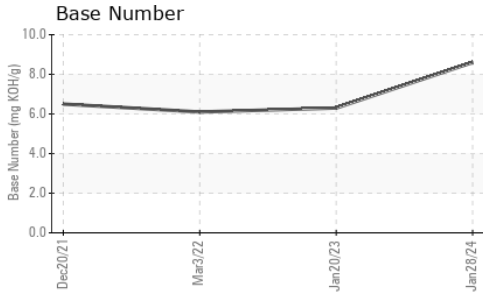
## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0.2</b>	0.8	0.8
Nitration	Abs/cm	*ASTM D7624 >20	<b>6.2</b>	9.8	10.9
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>18.2</b>	22.1	24.3

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>13.5</b>	18.7	21.0
Base Number (BN)	mg KOH/g	ASTM D2896	<b>8.6</b>	6.3	6.1

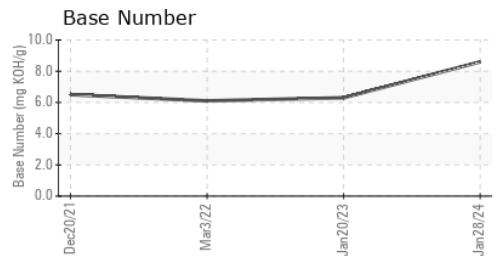
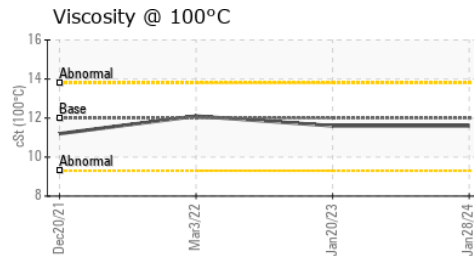
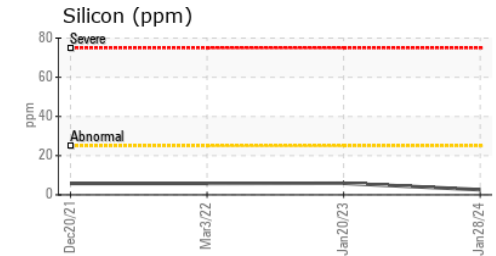
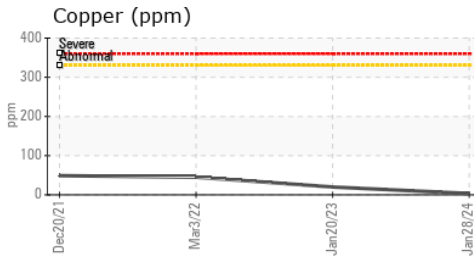
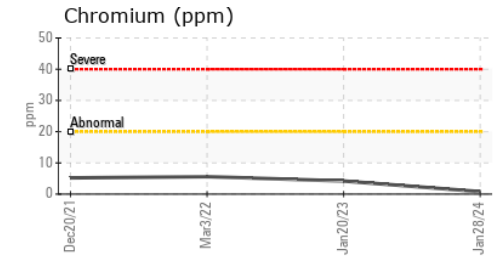
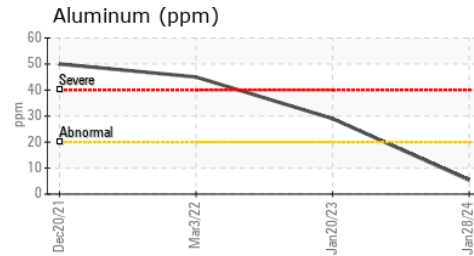
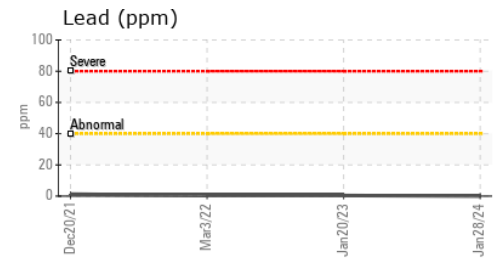
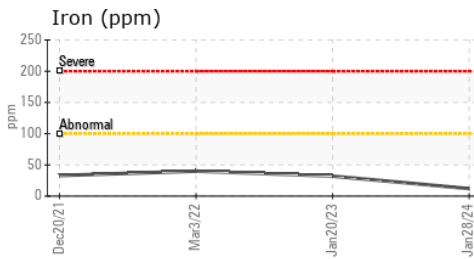
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	12.00	11.6	12.1

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0110653      **Received** : 09 Feb 2024  
**Lab Number** : 06084530      **Tested** : 10 Feb 2024  
**Unique Number** : 10871975      **Diagnosed** : 10 Feb 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: TBN )

**MILLER TRUCK LEASING #123**  
 66 KELLER AVENUE  
 LANCASTER, PA  
 US 17601  
 Contact: RON ROBERTS  
 roberts@millertransgroup.com  
 T: (717)945-6205  
 F: (717)945-5818

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)