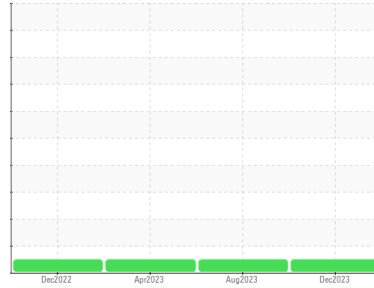


# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**326758**  
 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 new component breaking in.

### 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>PCA0115176</b>	PCA0019371	PCA0095913
Sample Date	Client Info		<b>21 Dec 2023</b>	25 Aug 2023	14 Apr 2023
Machine Age	mls	Client Info	<b>48771</b>	33692	19647
Oil Age	mls	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>Not Chngd</b>	Changed	Not Chngd
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>54</b>	99	71
Chromium	ppm	ASTM D5185m >20	<b>2</b>	3	2
Nickel	ppm	ASTM D5185m >4	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185m	<b>0</b>	0	0
Silver	ppm	ASTM D5185m >3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >20	<b>21</b>	26	14
Lead	ppm	ASTM D5185m >40	<b>0</b>	0	0
Copper	ppm	ASTM D5185m >330	<b>15</b>	30	25
Tin	ppm	ASTM D5185m >15	<b>2</b>	4	2
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>18</b>	24	31
Barium	ppm	ASTM D5185m 0	<b>0</b>	0	2
Molybdenum	ppm	ASTM D5185m 50	<b>60</b>	49	48
Manganese	ppm	ASTM D5185m 0	<b>3</b>	7	6
Magnesium	ppm	ASTM D5185m 950	<b>817</b>	667	624
Calcium	ppm	ASTM D5185m 1050	<b>1419</b>	1743	1496
Phosphorus	ppm	ASTM D5185m 995	<b>1001</b>	804	787
Zinc	ppm	ASTM D5185m 1180	<b>1184</b>	1075	988
Sulfur	ppm	ASTM D5185m 2600	<b>2722</b>	2892	2510

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>7</b>	10	21
Sodium	ppm	ASTM D5185m	<b>3</b>	7	6
Potassium	ppm	ASTM D5185m >20	<b>34</b>	46	24

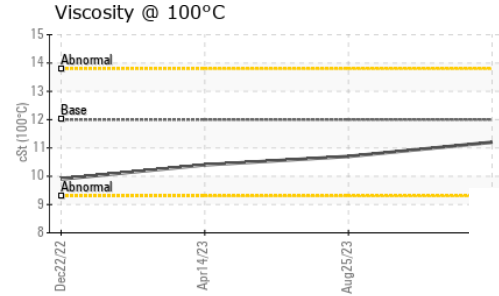
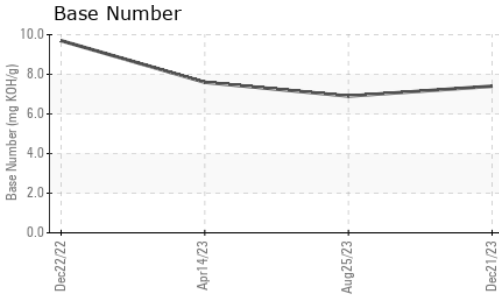
## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0.6</b>	0.8	0.4
Nitration	Abs/cm	*ASTM D7624 >20	<b>11.1</b>	13.3	9.3
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>21.8</b>	24.9	20.9

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>20.1</b>	25.7	20.9
Base Number (BN)	mg KOH/g	ASTM D2896	<b>7.4</b>	6.9	7.6

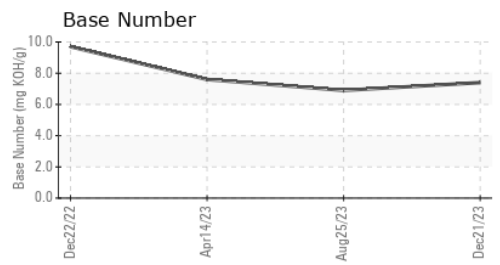
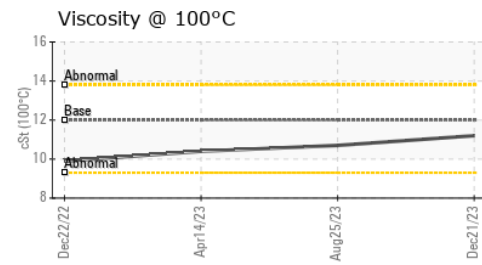
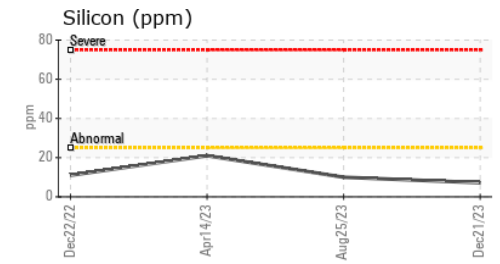
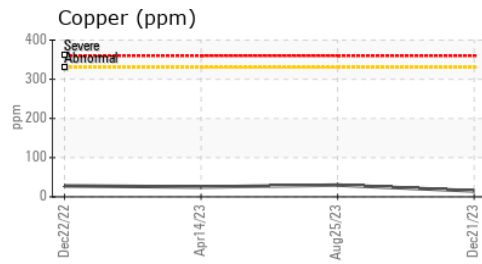
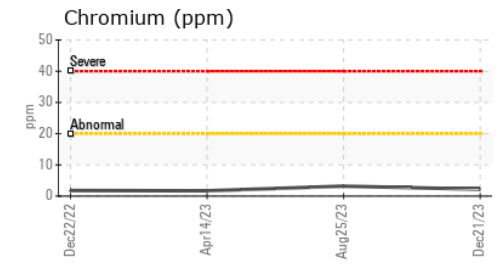
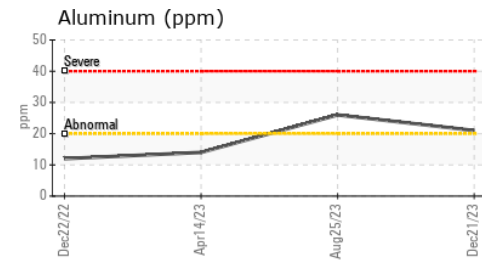
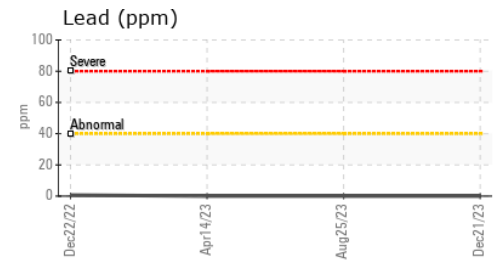
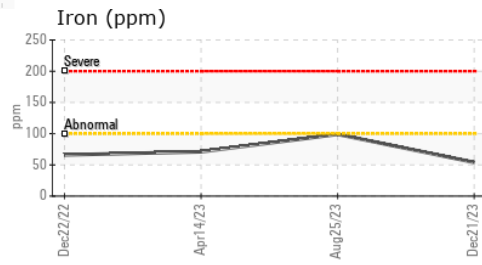
# OIL ANALYSIS REPORT



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	11.2	10.7

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0115176 **Received** : 05 Jan 2024  
**Lab Number** : 06052538 **Diagnosed** : 08 Jan 2024  
**Unique Number** : 10818487 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: TBN )

**MILLER TRUCK LEASING #119**  
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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)