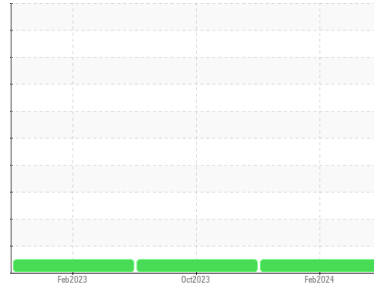


# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**638628**  
 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 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>PCA0110627</b>	PCA0097372	PCA0083855
Sample Date	Client Info		<b>21 Feb 2024</b>	23 Oct 2023	08 Feb 2023
Machine Age	mls	Client Info	<b>62258</b>	60854	52437
Oil Age	mls	Client Info	<b>9821</b>	8417	52437
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>13</b>	32	71
Chromium	ppm	ASTM D5185m >20	<b>&lt;1</b>	2	5
Nickel	ppm	ASTM D5185m >4	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185m	<b>3</b>	14	<1
Silver	ppm	ASTM D5185m >3	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m >20	<b>4</b>	18	70
Lead	ppm	ASTM D5185m >40	<b>0</b>	0	0
Copper	ppm	ASTM D5185m >330	<b>14</b>	63	194
Tin	ppm	ASTM D5185m >15	<b>0</b>	2	4
Vanadium	ppm	ASTM D5185m	<b>0</b>	<1	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 2	<b>8</b>	20	24
Barium	ppm	ASTM D5185m 0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m 50	<b>59</b>	49	47
Manganese	ppm	ASTM D5185m 0	<b>&lt;1</b>	2	6
Magnesium	ppm	ASTM D5185m 950	<b>1043</b>	798	546
Calcium	ppm	ASTM D5185m 1050	<b>1254</b>	1341	1685
Phosphorus	ppm	ASTM D5185m 995	<b>1135</b>	923	749
Zinc	ppm	ASTM D5185m 1180	<b>1370</b>	1238	952
Sulfur	ppm	ASTM D5185m 2600	<b>3607</b>	2969	1999

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>4</b>	6	10
Sodium	ppm	ASTM D5185m	<b>1</b>	3	7
Potassium	ppm	ASTM D5185m >20	<b>8</b>	44	174

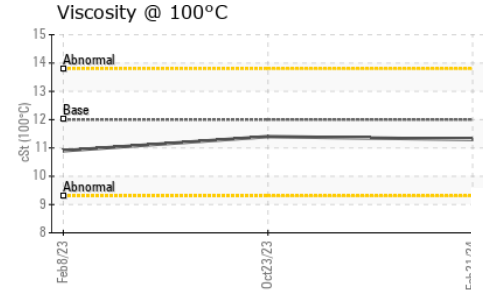
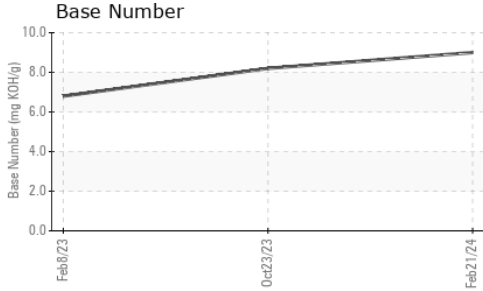
## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0.2</b>	0.5	1.1
Nitration	Abs/cm	*ASTM D7624 >20	<b>5.2</b>	8.0	12.0
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>17.4</b>	19.7	24.6

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>13.0</b>	16.1	24.8
Base Number (BN)	mg KOH/g	ASTM D2896	<b>9.0</b>	8.2	6.8

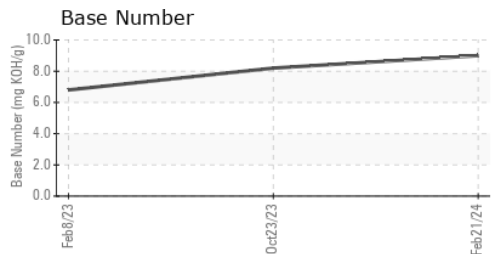
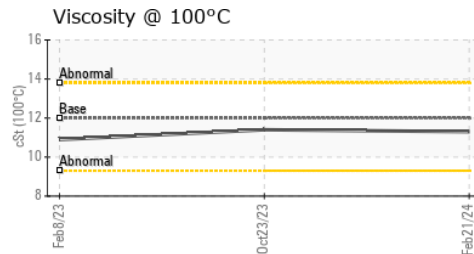
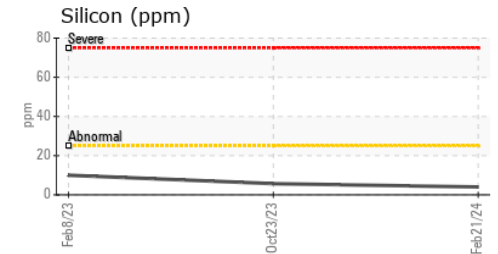
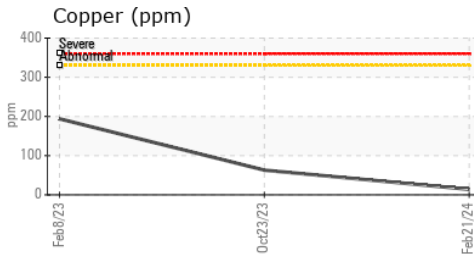
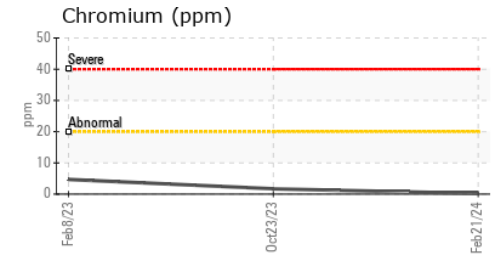
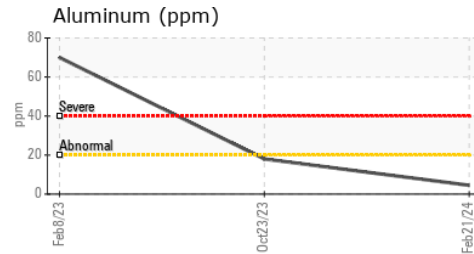
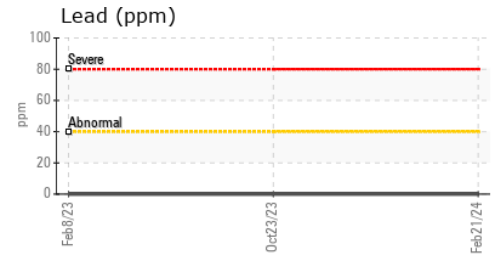
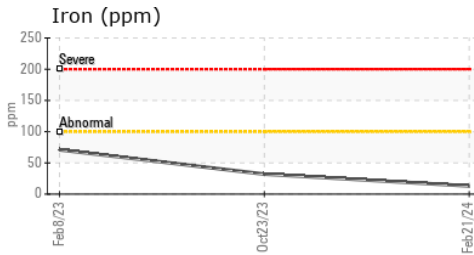
# OIL ANALYSIS REPORT



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	11.3	11.4

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0110627 **Received** : 04 Mar 2024  
**Lab Number** : 06106952 **Tested** : 05 Mar 2024  
**Unique Number** : 10910449 **Diagnosed** : 05 Mar 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)