

# OIL ANALYSIS REPORT

## Sample Rating Trend

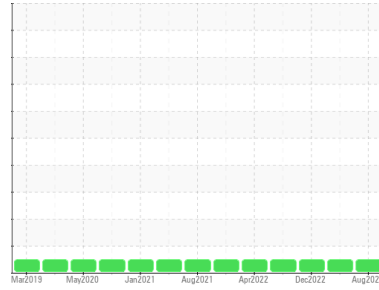
**NORMAL**



Machine Id  
**391337**

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

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>PCA0104298</b>	PCA0095950	PCA0083556
Sample Date	Client Info		<b>17 Aug 2023</b>	04 Apr 2023	09 Dec 2022
Machine Age	mls	Client Info	<b>113008</b>	107673	92787
Oil Age	mls	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>Changed</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
Glycol	WC Method		<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	<b>17</b>	14	14
Chromium	ppm	ASTM D5185m >20	<b>&lt;1</b>	0	<1
Nickel	ppm	ASTM D5185m >4	<b>0</b>	0	0
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>4</b>	4	4
Lead	ppm	ASTM D5185m >40	<b>2</b>	0	2
Copper	ppm	ASTM D5185m >330	<b>4</b>	3	4
Tin	ppm	ASTM D5185m >15	<b>1</b>	0	0
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>6</b>	9	0
Barium	ppm	ASTM D5185m 0	<b>0</b>	1	1
Molybdenum	ppm	ASTM D5185m 50	<b>64</b>	64	74
Manganese	ppm	ASTM D5185m 0	<b>&lt;1</b>	1	<1
Magnesium	ppm	ASTM D5185m 950	<b>935</b>	870	887
Calcium	ppm	ASTM D5185m 1050	<b>1143</b>	1081	1131
Phosphorus	ppm	ASTM D5185m 995	<b>1072</b>	954	983
Zinc	ppm	ASTM D5185m 1180	<b>1328</b>	1186	1212
Sulfur	ppm	ASTM D5185m 2600	<b>3807</b>	3161	3440

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>3</b>	3	2
Sodium	ppm	ASTM D5185m	<b>6</b>	3	4
Potassium	ppm	ASTM D5185m >20	<b>3</b>	2	5

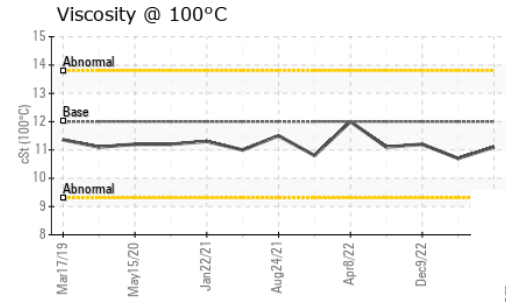
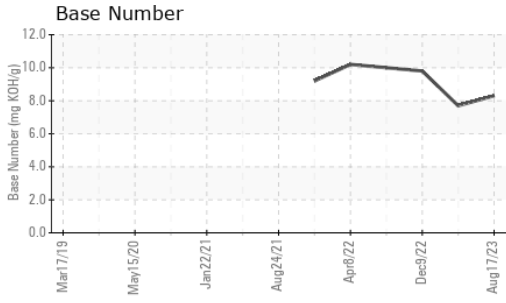
## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>1.1</b>	0.9	0.9
Nitration	Abs/cm	*ASTM D7624 >20	<b>10.9</b>	9.4	11.1
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>19.7</b>	17.8	21.6

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>16.5</b>	15.6	18.7
Base Number (BN)	mg KOH/g	ASTM D2896	<b>8.3</b>	7.7	9.8

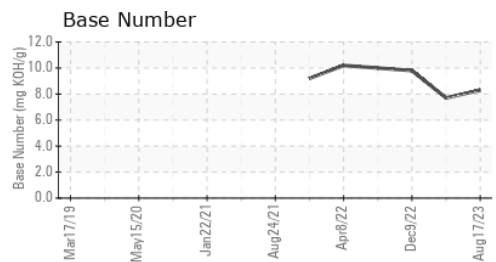
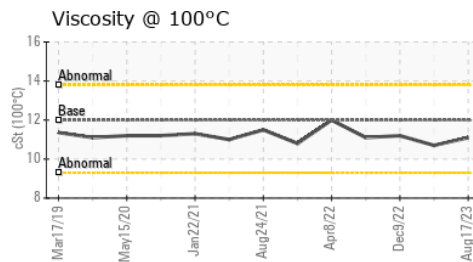
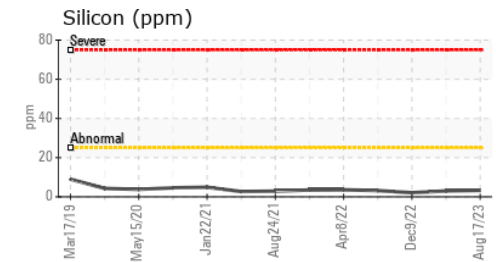
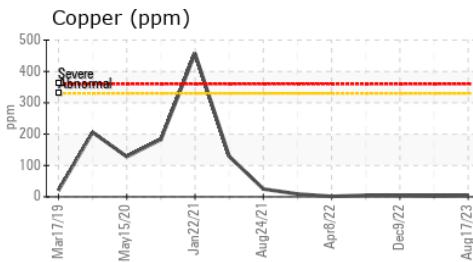
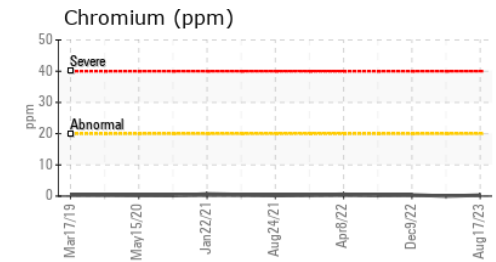
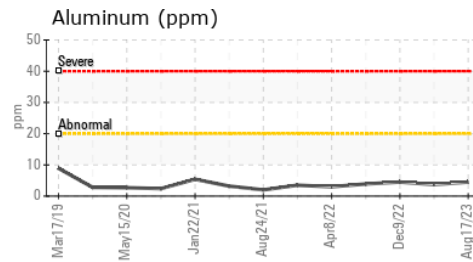
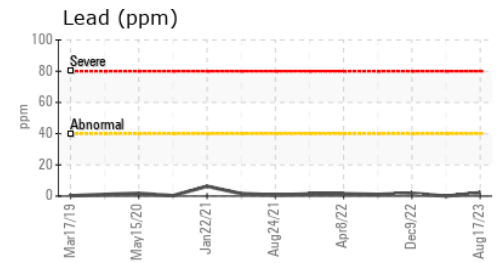
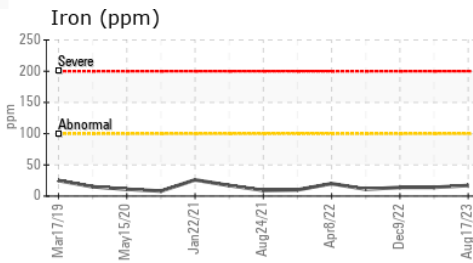
# OIL ANALYSIS REPORT



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	<b>11.1</b>	10.7	11.2

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0104298 **Received** : 30 Aug 2023  
**Lab Number** : 05938622 **Diagnosed** : 31 Aug 2023  
**Unique Number** : 10629234 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: TBN )

**MILLER TRUCK LEASING #119**  
 39 INDUSTRIAL AVE  
 HASBROUCK HEIGHTS, NJ  
 US 07604  
 Contact: MIKE LONGETTE  
 mlongette@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)

T: (201)528-7053