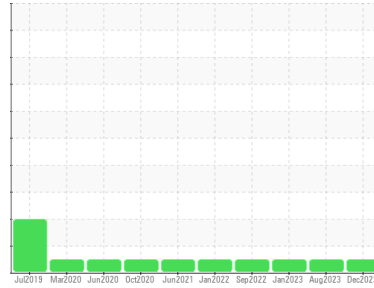


# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**490281**  
 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>PCA0097364</b>	PCA0097399	PCA0071735	
Sample Date	Client Info	<b>14 Dec 2023</b>	22 Aug 2023	11 Jan 2023	
Machine Age	mls	Client Info	<b>280022</b>	262918	226761
Oil Age	mls	Client Info	<b>17104</b>	36157	18547
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
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>10</b>	19	18
Chromium	ppm ASTM D5185m >20	<b>1</b>	<1	2
Nickel	ppm ASTM D5185m >4	<b>0</b>	0	<1
Titanium	ppm ASTM D5185m	<b>4</b>	24	52
Silver	ppm ASTM D5185m >3	<b>0</b>	0	0
Aluminum	ppm ASTM D5185m >20	<b>9</b>	14	12
Lead	ppm ASTM D5185m >40	<b>0</b>	0	<1
Copper	ppm ASTM D5185m >330	<b>4</b>	5	5
Tin	ppm ASTM D5185m >15	<b>&lt;1</b>	<1	1
Vanadium	ppm ASTM D5185m	<b>&lt;1</b>	<1	1
Cadmium	ppm ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 2	<b>4</b>	8	48
Barium	ppm ASTM D5185m 0	<b>0</b>	<1	0
Molybdenum	ppm ASTM D5185m 50	<b>60</b>	50	27
Manganese	ppm ASTM D5185m 0	<b>&lt;1</b>	0	<1
Magnesium	ppm ASTM D5185m 950	<b>1000</b>	778	615
Calcium	ppm ASTM D5185m 1050	<b>1172</b>	1326	1662
Phosphorus	ppm ASTM D5185m 995	<b>1139</b>	932	969
Zinc	ppm ASTM D5185m 1180	<b>1322</b>	1235	1191
Sulfur	ppm ASTM D5185m 2600	<b>3394</b>	3282	3783

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	<b>4</b>	5	5
Sodium	ppm ASTM D5185m	<b>1</b>	1	4
Potassium	ppm ASTM D5185m >20	<b>3</b>	8	4

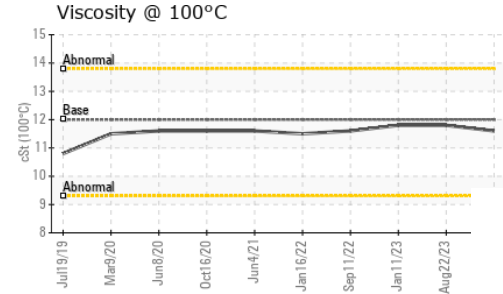
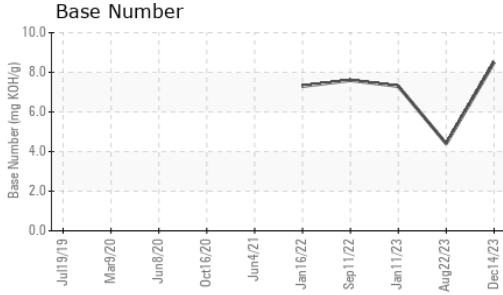
## INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	<b>0.7</b>	1.3	0.9
Nitration	Abs/cm *ASTM D7624 >20	<b>7.5</b>	9.5	9.6
Sulfation	Abs/.1mm *ASTM D7415 >30	<b>19.1</b>	21.4	21.1

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	<b>14.1</b>	15.7	15.4
Base Number (BN)	mg KOH/g ASTM D2896	<b>8.5</b>	4.4	7.3

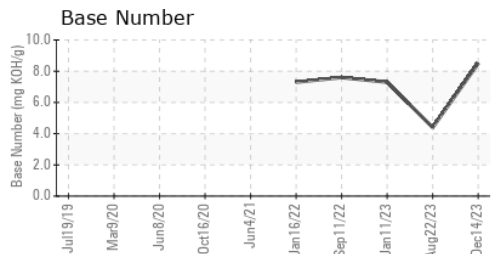
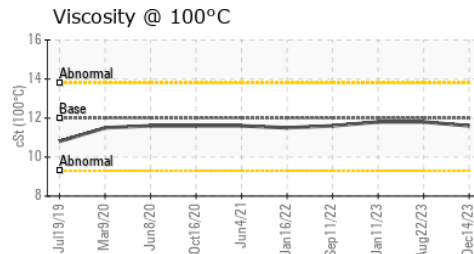
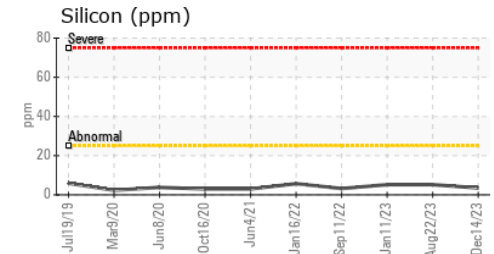
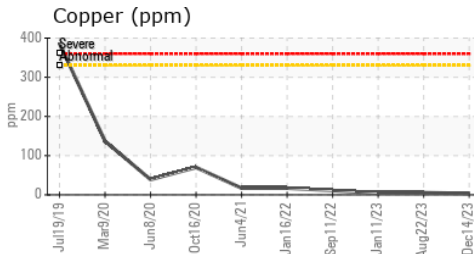
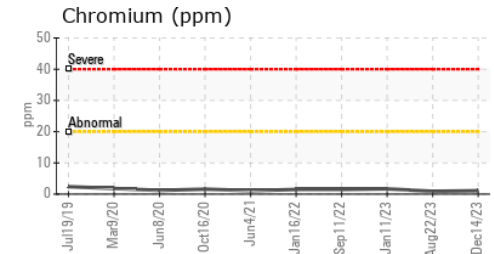
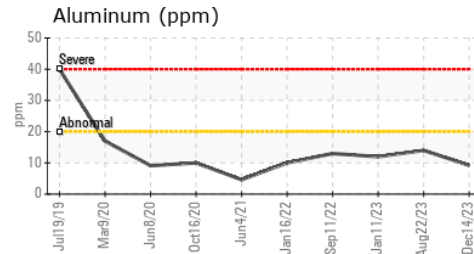
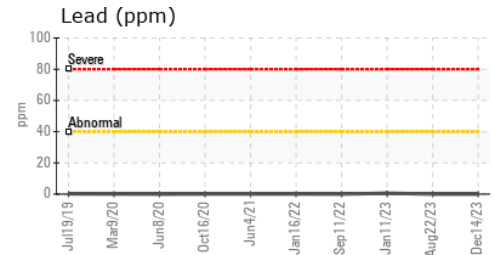
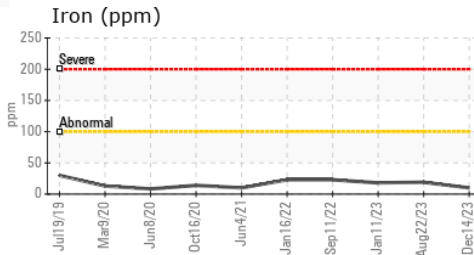
# OIL ANALYSIS REPORT



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>11.6</b>	11.8	11.8

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0097364 **Recieved** : 29 Dec 2023  
**Lab Number** : 06047645 **Diagnosed** : 02 Jan 2024  
**Unique Number** : 10808253 **Diagnostician** : 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)