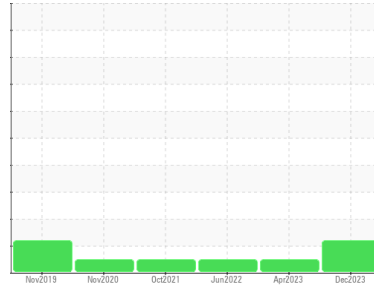


# OIL ANALYSIS REPORT

## Sample Rating Trend



**GLYCOL**



Machine Id  
**303466**

Component  
**Diesel Engine**

Fluid  
**PETRO CANADA DURON SHP 10W30 (--- GAL)**

### DIAGNOSIS

#### ▲ Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### ▲ Contamination

Sodium and/or potassium levels are high. Test for glycol is negative.

#### 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>PCA0097338</b>	PCA0083810	PCA0061073	
Sample Date	Client Info	<b>27 Dec 2023</b>	13 Apr 2023	21 Jun 2022	
Machine Age	mls	Client Info	<b>166409</b>	158080	134282
Oil Age	mls	Client Info	<b>8329</b>	23798	12173
Oil Changed	Client Info	<b>Not Chngd</b>	Changed	Changed	
Sample Status		<b>ABNORMAL</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

### WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >100	<b>30</b>	30	38
Chromium	ppm ASTM D5185m >20	<b>2</b>	<1	1
Nickel	ppm ASTM D5185m >4	<b>0</b>	<1	<1
Titanium	ppm ASTM D5185m	<b>8</b>	66	<1
Silver	ppm ASTM D5185m >3	<b>&lt;1</b>	0	<1
Aluminum	ppm ASTM D5185m >20	<b>8</b>	10	11
Lead	ppm ASTM D5185m >40	<b>0</b>	0	<1
Copper	ppm ASTM D5185m >330	<b>31</b>	1	2
Tin	ppm ASTM D5185m >15	<b>3</b>	<1	<1
Antimony	ppm ASTM D5185m	<b>---</b>	---	---
Vanadium	ppm ASTM D5185m	<b>&lt;1</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>85</b>	25	16
Barium	ppm ASTM D5185m 0	<b>26</b>	0	0
Molybdenum	ppm ASTM D5185m 50	<b>62</b>	19	57
Manganese	ppm ASTM D5185m 0	<b>11</b>	<1	<1
Magnesium	ppm ASTM D5185m 950	<b>718</b>	545	878
Calcium	ppm ASTM D5185m 1050	<b>2235</b>	1697	1125
Phosphorus	ppm ASTM D5185m 995	<b>1196</b>	965	957
Zinc	ppm ASTM D5185m 1180	<b>1293</b>	1133	1174
Sulfur	ppm ASTM D5185m 2600	<b>4278</b>	3956	3609

### CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	<b>18</b>	4	4
Sodium	ppm ASTM D5185m	<b>4</b>	2	2
Potassium	ppm ASTM D5185m >20	<b>▲ 46</b>	8	3
Glycol	% *ASTM D2982	<b>NEG</b>	NEG	NEG

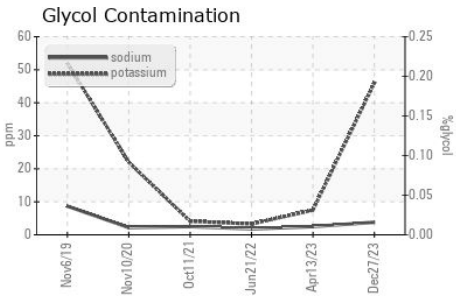
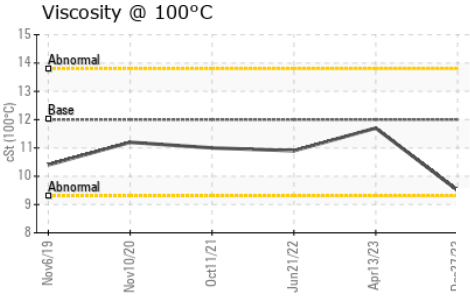
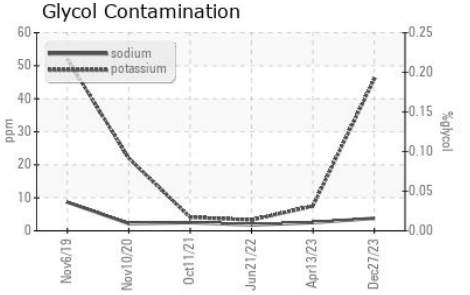
### INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	<b>0.2</b>	0.8	0.6
Nitration	Abs/cm *ASTM D7624 >20	<b>6.8</b>	12.0	11.4
Sulfation	Abs/.1mm *ASTM D7415 >30	<b>21.4</b>	25.1	22.3

### FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	<b>18.7</b>	22.1	18.1
Base Number (BN)	mg KOH/g ASTM D2896	<b>9.6</b>	5.2	8.6

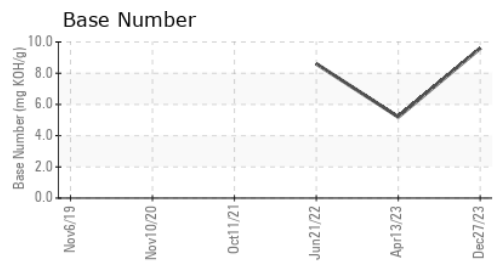
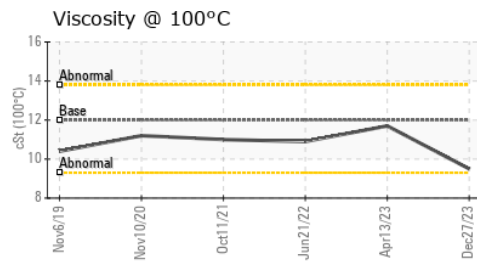
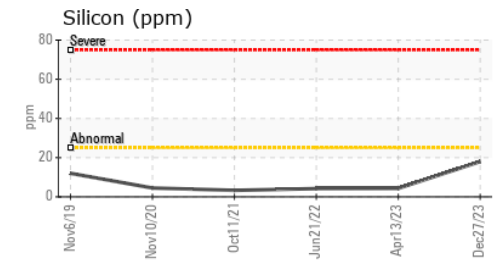
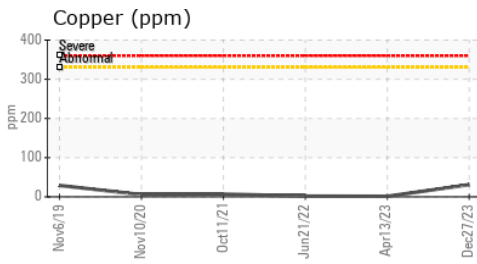
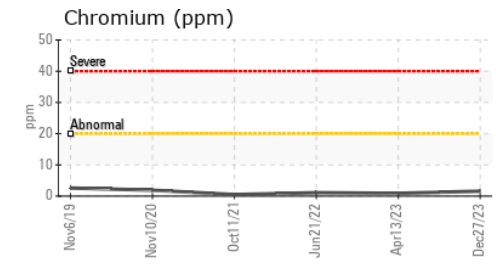
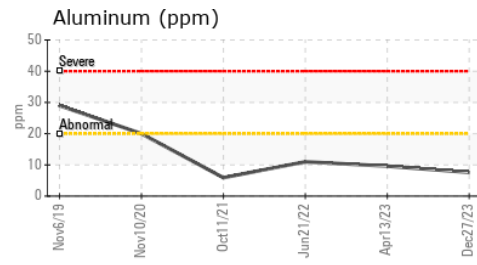
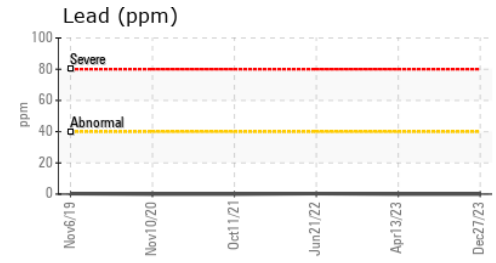
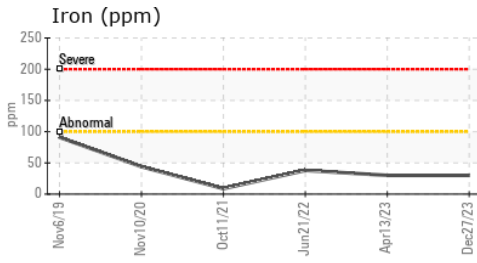
# OIL ANALYSIS REPORT



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	9.5	11.7	10.9

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0097338 **Received** : 09 Feb 2024  
**Lab Number** : 06084558 **Tested** : 12 Feb 2024  
**Unique Number** : 10872003 **Diagnosed** : 12 Feb 2024 - Jonathan Hester  
**Test Package** : MOB 1 ( Additional Tests: Glycol, 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)