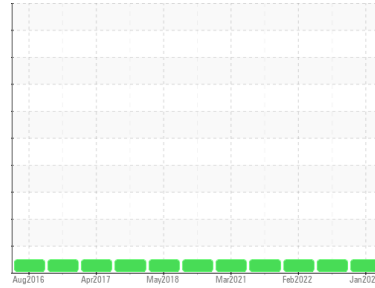


# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Machine Id  
**FREIGHTLINER 260204**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 10W30 (20 QTS)**

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### 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>PCA0114535</b>	PCA0102875	PCA0067633	
Sample Date	Client Info	<b>03 Jan 2024</b>	11 Aug 2023	15 Feb 2022	
Machine Age	mls	Client Info	<b>13909</b>	289792	248901
Oil Age	mls	Client Info	<b>13909</b>	289792	6000
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 >3.0	<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 >130	<b>39</b>	59	7
Chromium	ppm ASTM D5185m >10	<b>1</b>	2	<1
Nickel	ppm ASTM D5185m >4	<b>0</b>	0	0
Titanium	ppm ASTM D5185m >2	<b>1</b>	6	3
Silver	ppm ASTM D5185m >2	<b>0</b>	<1	<1
Aluminum	ppm ASTM D5185m >20	<b>6</b>	9	2
Lead	ppm ASTM D5185m >20	<b>&lt;1</b>	0	0
Copper	ppm ASTM D5185m >125	<b>&lt;1</b>	0	<1
Tin	ppm ASTM D5185m >4	<b>&lt;1</b>	0	<1
Antimony	ppm ASTM D5185m	<b>---</b>	---	---
Vanadium	ppm ASTM D5185m	<b>0</b>	0	<1
Cadmium	ppm ASTM D5185m	<b>0</b>	0	<1

### ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 2	<b>4</b>	5	40
Barium	ppm ASTM D5185m 0	<b>0</b>	0	0
Molybdenum	ppm ASTM D5185m 50	<b>62</b>	66	54
Manganese	ppm ASTM D5185m 0	<b>&lt;1</b>	0	<1
Magnesium	ppm ASTM D5185m 950	<b>930</b>	996	786
Calcium	ppm ASTM D5185m 1050	<b>1176</b>	1360	1137
Phosphorus	ppm ASTM D5185m 995	<b>1069</b>	1062	936
Zinc	ppm ASTM D5185m 1180	<b>1323</b>	1512	1137
Sulfur	ppm ASTM D5185m 2600	<b>3149</b>	4476	2628

### CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	<b>5</b>	7	5
Sodium	ppm ASTM D5185m	<b>2</b>	0	<1
Potassium	ppm ASTM D5185m >20	<b>2</b>	0	1

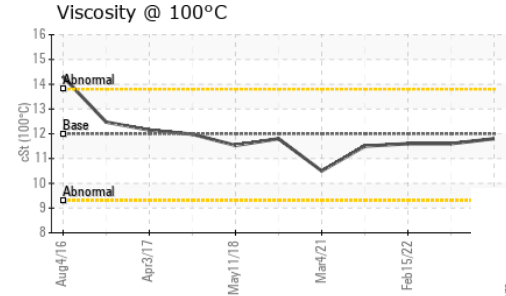
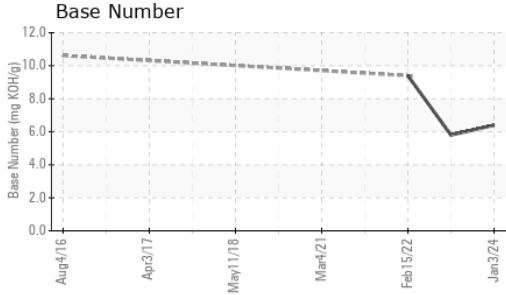
### INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >6	<b>1.1</b>	1.2	0.2
Nitration	Abs/cm *ASTM D7624 >20	<b>12.8</b>	13.5	6.2
Sulfation	Abs/.1mm *ASTM D7415 >30	<b>23.8</b>	26.2	18.4

### FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	<b>21.7</b>	23.9	13
Base Number (BN)	mg KOH/g ASTM D2896	<b>6.4</b>	5.8	9.4

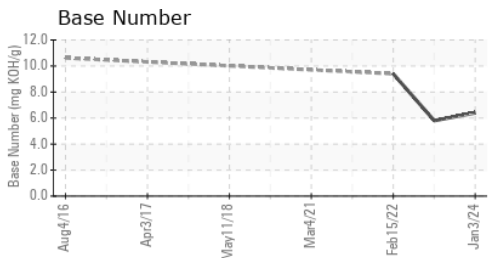
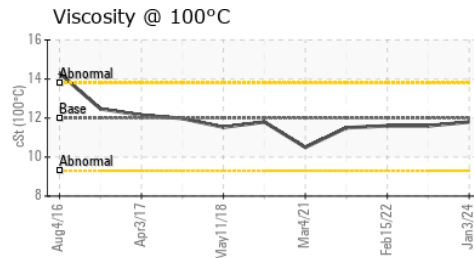
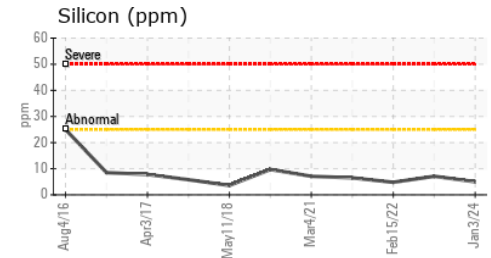
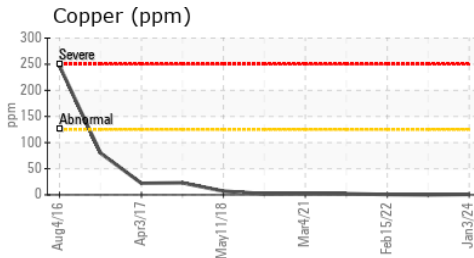
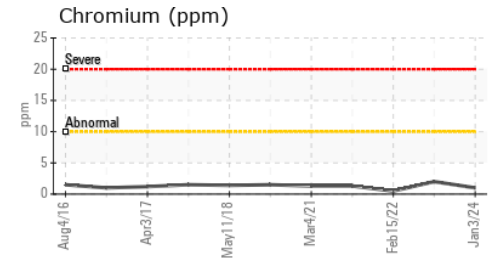
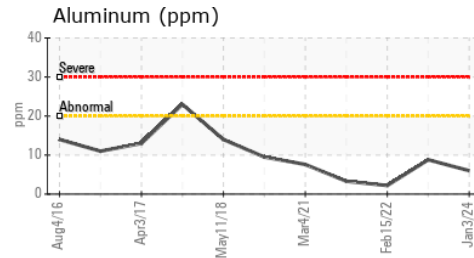
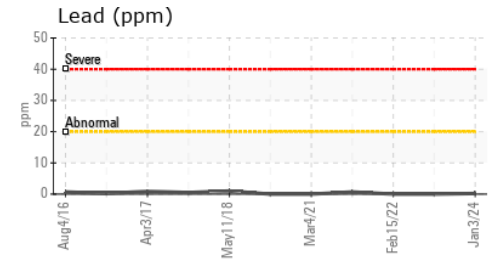
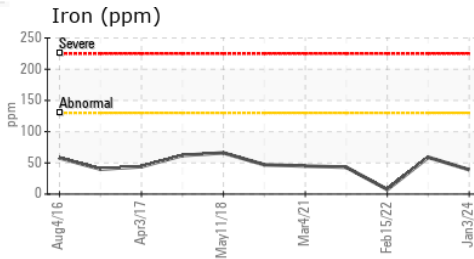
# OIL ANALYSIS REPORT



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>11.8</b>	11.6	11.6

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0114535 **Recieved** : 16 Jan 2024  
**Lab Number** : 06060923 **Diagnosed** : 17 Jan 2024  
**Unique Number** : 10832305 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: TBN )

**MILLER TRUCK LEASING #118**  
 2196 BENNETT ROAD  
 PHILADELPHIA, PA  
 US 19116  
 Contact: ROSTY VITER  
 rviter@millertransgroup.com  
 T: (215)552-9832  
 F: (215)552-9892

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)