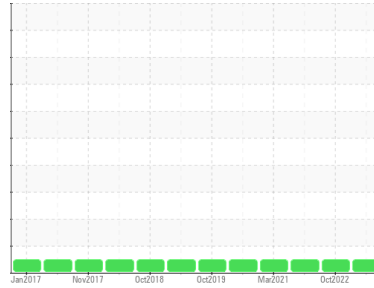


# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Area  
**METAL STOCK INC**  
 Machine Id  
**FREIGHTLINER 565151**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 10W30 (42 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>PCA0105312</b>	PCA0076742	PCA0067639
Sample Date	Client Info		<b>11 Sep 2023</b>	28 Oct 2022	09 Feb 2022
Machine Age	mls	Client Info	<b>9123</b>	10354	243652
Oil Age	mls	Client Info	<b>9123</b>	10354	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
Glycol	WC Method		<b>NEG</b>	NEG	NEG

### WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >65	<b>43</b>	23	19
Chromium	ppm	ASTM D5185m >5	<b>2</b>	1	1
Nickel	ppm	ASTM D5185m >3	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m >5	<b>5</b>	2	<1
Silver	ppm	ASTM D5185m >2	<b>0</b>	2	0
Aluminum	ppm	ASTM D5185m >35	<b>15</b>	10	8
Lead	ppm	ASTM D5185m >10	<b>0</b>	0	0
Copper	ppm	ASTM D5185m >180	<b>6</b>	4	2
Tin	ppm	ASTM D5185m >8	<b>&lt;1</b>	<1	<1
Antimony	ppm	ASTM D5185m >35	<b>---</b>	---	---
Vanadium	ppm	ASTM D5185m	<b>0</b>	<1	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	<1	0

### ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 2	<b>5</b>	25	13
Barium	ppm	ASTM D5185m 0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m 50	<b>64</b>	57	59
Manganese	ppm	ASTM D5185m 0	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m 950	<b>934</b>	771	854
Calcium	ppm	ASTM D5185m 1050	<b>1237</b>	1126	1208
Phosphorus	ppm	ASTM D5185m 995	<b>1061</b>	928	995
Zinc	ppm	ASTM D5185m 1180	<b>1319</b>	1135	1221
Sulfur	ppm	ASTM D5185m 2600	<b>3499</b>	3738	2648

### CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	<b>6</b>	4	4
Sodium	ppm	ASTM D5185m	<b>2</b>	<1	0
Potassium	ppm	ASTM D5185m >20	<b>14</b>	10	8

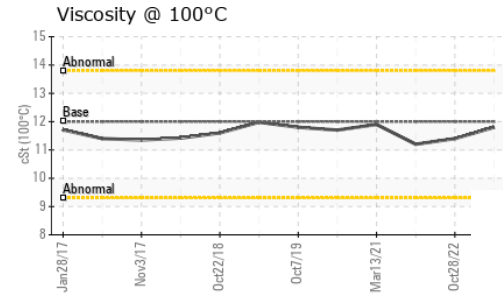
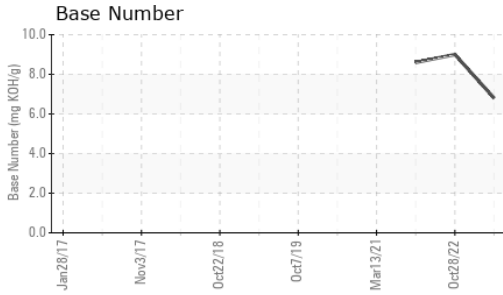
### INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0.9</b>	0.6	0.6
Nitration	Abs/cm	*ASTM D7624 >20	<b>9.2</b>	8.1	8.4
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>20.5</b>	19.2	19.4

### FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>15.8</b>	13.3	14
Base Number (BN)	mg KOH/g	ASTM D2896	<b>6.8</b>	9	8.6

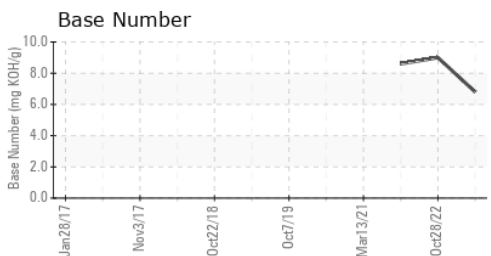
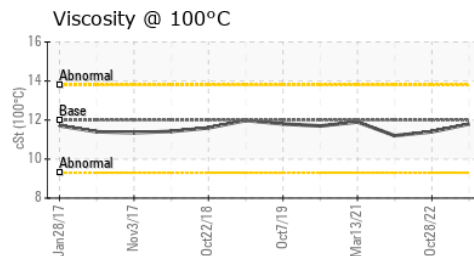
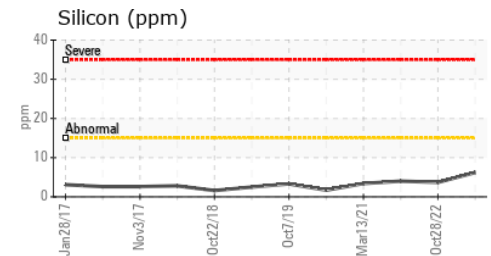
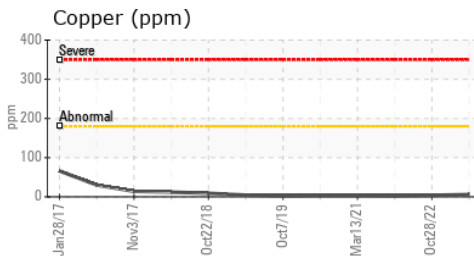
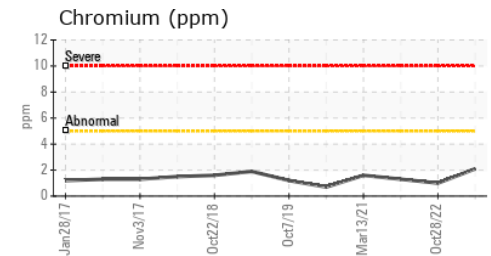
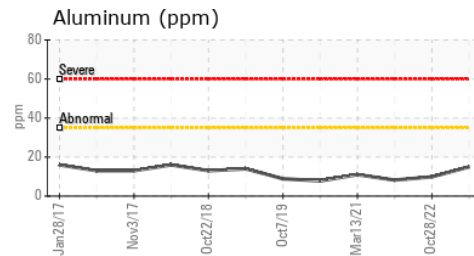
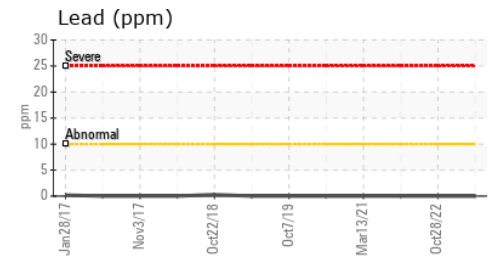
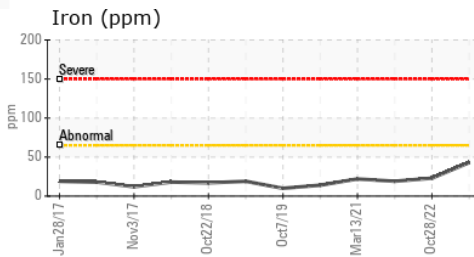
# OIL ANALYSIS REPORT



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	<b>11.8</b>	11.4	11.2

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0105312 **Received** : 19 Sep 2023  
**Lab Number** : 05955149 **Diagnosed** : 20 Sep 2023  
**Unique Number** : 10656362 **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)