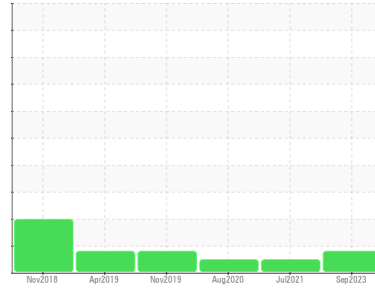


Machine Id  
**FREIGHTLINER 687882**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 10W30 (40 QTS)**



**DIAGNOSIS**

- ▲ Recommendation**  
 No corrective action is recommended at this time. Resample at the next service interval to monitor.
- ▲ Wear**  
 The aluminum level is marginal.
- 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>PCA0099667</b>	PCA0050844	PCA0026040
Sample Date	Client Info		<b>28 Sep 2023</b>	26 Jul 2021	01 Aug 2020
Machine Age	mls	Client Info	<b>200903</b>	138424	108213
Oil Age	mls	Client Info	<b>20000</b>	30211	0
Oil Changed	Client Info		<b>Not Chngd</b>	Changed	Changed
Sample Status			<b>MARGINAL</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 >200	<b>13</b>	19	16
Chromium	ppm	ASTM D5185m >20	<b>2</b>	2	2
Nickel	ppm	ASTM D5185m >2	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185m >2	<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m >2	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m >30	<b>▲ 27</b>	4	11
Lead	ppm	ASTM D5185m >30	<b>2</b>	0	1
Copper	ppm	ASTM D5185m >30	<b>6</b>	7	17
Tin	ppm	ASTM D5185m >15	<b>&lt;1</b>	<1	0
Antimony	ppm	ASTM D5185m	<b>---</b>	0	<1
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0

**ADDITIVES**

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 2	<b>130</b>	26	3
Barium	ppm	ASTM D5185m 0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m 50	<b>17</b>	60	56
Manganese	ppm	ASTM D5185m 0	<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m 950	<b>269</b>	817	926
Calcium	ppm	ASTM D5185m 1050	<b>1948</b>	1406	1077
Phosphorus	ppm	ASTM D5185m 995	<b>1065</b>	1045	917
Zinc	ppm	ASTM D5185m 1180	<b>1231</b>	1177	1158
Sulfur	ppm	ASTM D5185m 2600	<b>4233</b>	2760	2118

**CONTAMINANTS**

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >30	<b>7</b>	3	4
Sodium	ppm	ASTM D5185m	<b>0</b>	3	2
Potassium	ppm	ASTM D5185m >20	<b>6</b>	7	21

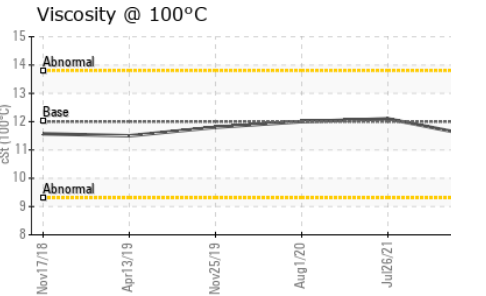
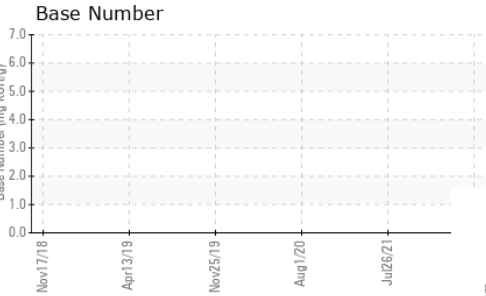
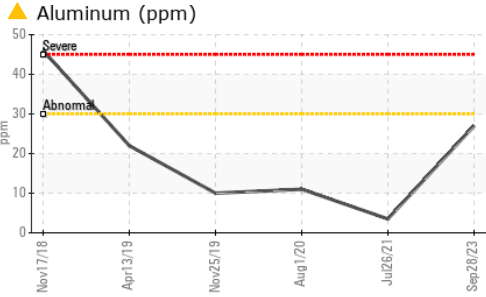
**INFRA-RED**

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>1</b>	0.7	0.8
Nitration	Abs/cm	*ASTM D7624 >20	<b>9.5</b>	9.4	8.7
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>21.2</b>	21.2	20.9

**FLUID DEGRADATION**

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>16.5</b>	16.6	15.7
Base Number (BN)	mg KOH/g	ASTM D2896	<b>6.7</b>	---	---

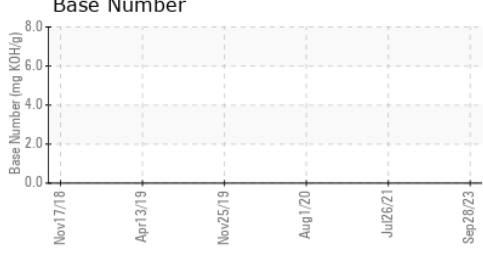
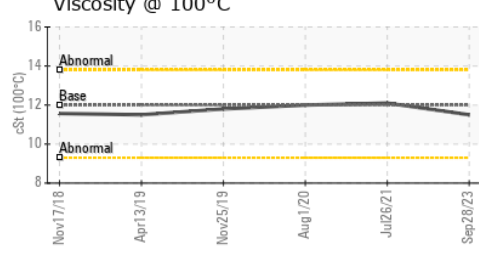
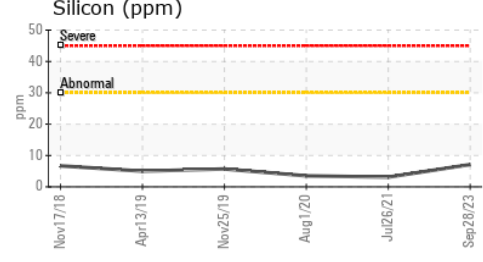
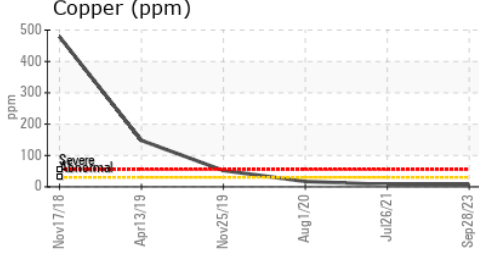
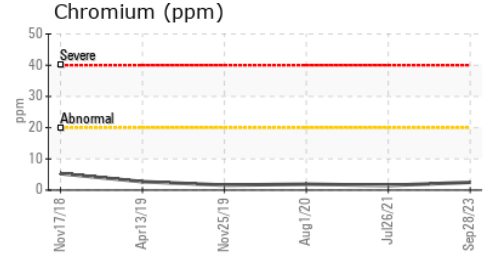
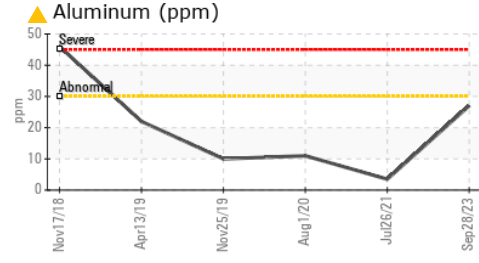
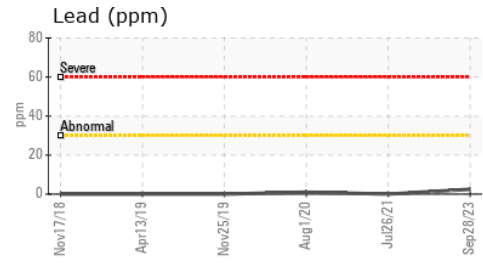
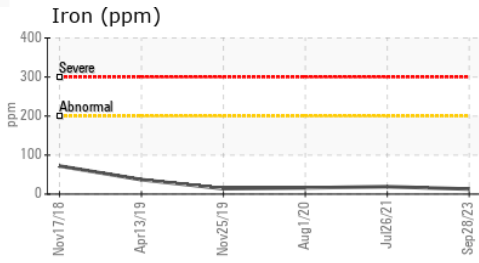
# OIL ANALYSIS REPORT



PARAMETER	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	11.5	12.1

### GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0099667 **Received** : 07 Dec 2023  
**Lab Number** : 06027339 **Diagnosed** : 11 Dec 2023  
**Unique Number** : 10777130 **Diagnostician** : Jonathan Hester  
**Test Package** : MOB 1 ( Additional Tests: TBN )

**MILLER TRUCK LEASING #121**  
 107 HOW LANE  
 NEW BRUNSWICK, NJ  
 US 08901  
 Contact: Anthony Cursi  
 acursi@millertransgroup.com  
 T: (732)358-4027  
 F: (732)400-8475

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)