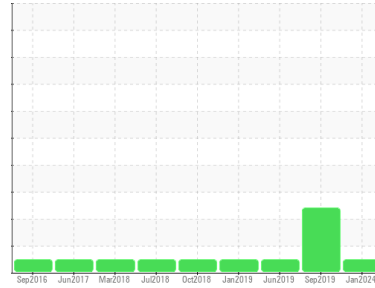


Area  
**AIMM PHILADELPHIA INSTALLATIONS**  
Machine Id  
**FREIGHTLINER 339647**

Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 10W30 (18 QTS)**



## 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

Fuel content negligible. 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>PCA0115239</b>	PCA0005987	PCA0000612
Sample Date	Client Info			<b>04 Jan 2024</b>	13 Sep 2019	01 Jun 2019
Machine Age	mls	Client Info		<b>0</b>	44305	210533
Oil Age	mls	Client Info		<b>0</b>	10000	11000
Oil Changed	Client Info			<b>N/A</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	SEVERE	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
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>32</b>	38	29
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	4	1
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>5</b>	8	6
Lead	ppm	ASTM D5185m	>20	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>125	<b>3</b>	2	<1
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	1	<1
Antimony	ppm	ASTM D5185m		<b>---</b>	1	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

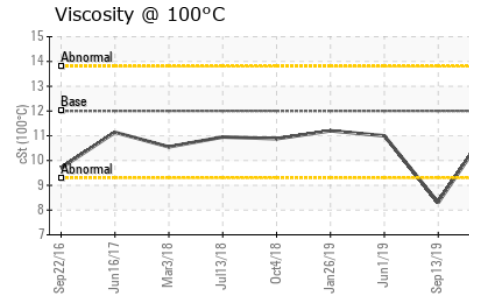
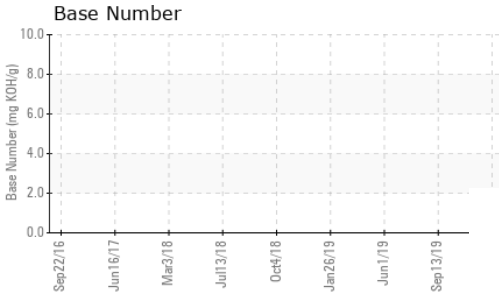
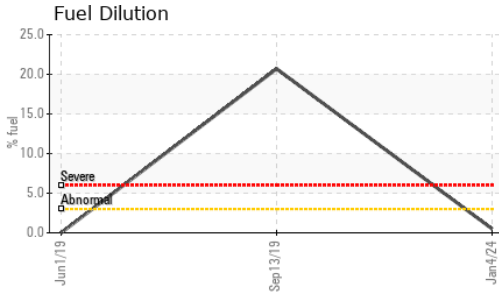
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	<b>14</b>	3	6
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	50	<b>55</b>	45	55
Manganese	ppm	ASTM D5185m	0	<b>2</b>	<1	<1
Magnesium	ppm	ASTM D5185m	950	<b>888</b>	758	866
Calcium	ppm	ASTM D5185m	1050	<b>1090</b>	905	959
Phosphorus	ppm	ASTM D5185m	995	<b>1042</b>	770	899
Zinc	ppm	ASTM D5185m	1180	<b>1181</b>	863	993
Sulfur	ppm	ASTM D5185m	2600	<b>2927</b>	1866	3284

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>8</b>	7	4
Sodium	ppm	ASTM D5185m		<b>&lt;1</b>	2	2
Potassium	ppm	ASTM D5185m	>20	<b>9</b>	6	5
Fuel	%	ASTM D3524	>3.0	<b>0.5</b>	20.7	<1.0

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	<b>0.2</b>	0.9	0.7
Nitration	Abs/cm	*ASTM D7624	>20	<b>6.1</b>	10.3	10
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>17.9</b>	19.5	19.6

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>14.7</b>	16.1	16.2
Base Number (BN)	mg KOH/g	ASTM D2896		<b>9.1</b>	---	---

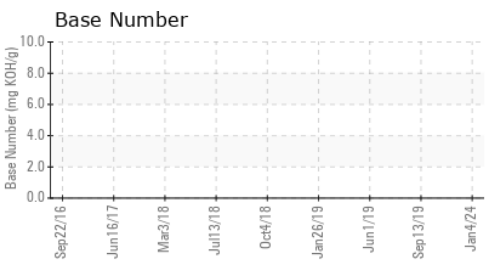
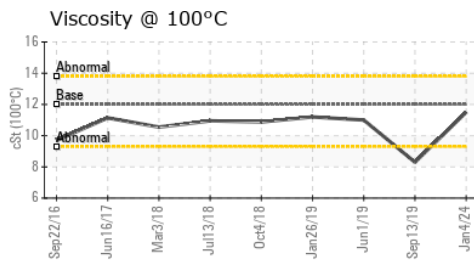
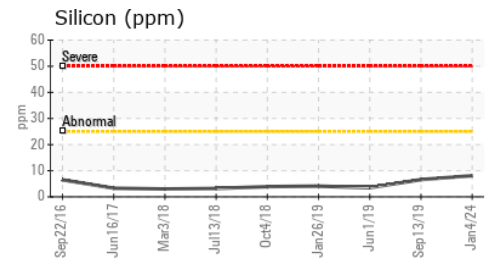
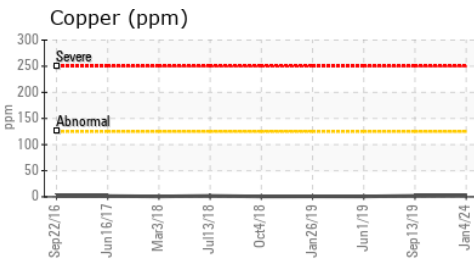
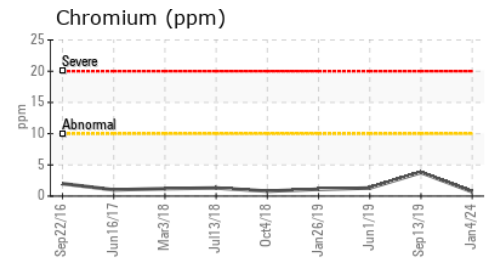
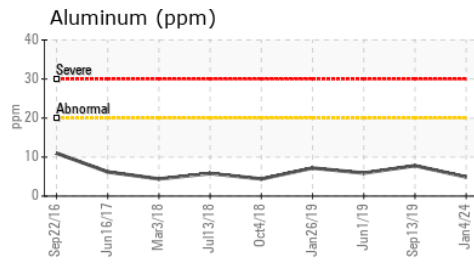
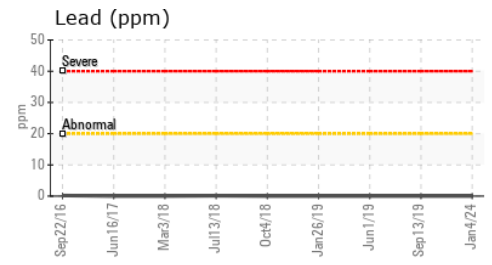
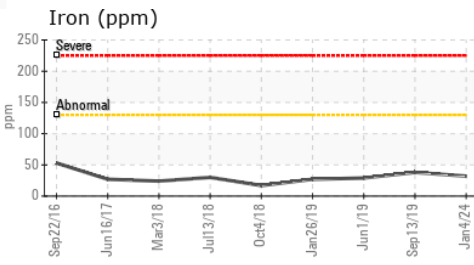
# OIL ANALYSIS REPORT



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	11.5	▲ 8.3	11.0

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0115239 **Received** : 05 Jan 2024  
**Lab Number** : 06052536 **Diagnosed** : 09 Jan 2024  
**Unique Number** : 10818485 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: PercentFuel, TBN )

**MILLER TRUCK LEASING #119**  
 39 INDUSTRIAL AVE  
 HASBROUCK HEIGHTS, NJ  
 US 07604  
 Contact: MIKE LONGETTE  
 mlongette@millertransgroup.com  
 T:  
 F: (201)528-7053

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)