

Machine Id  
**FREIGHTLINER 687874**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 10W30 (32 QTS)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PCA0099235</b>	PCA0099204	PCA0085367
Sample Date		Client Info		<b>21 Sep 2023</b>	01 Jun 2023	06 Feb 2023
Machine Age	mls	Client Info		<b>129042</b>	119168	108159
Oil Age	mls	Client Info		<b>0</b>	0	0
Filter Age	mls	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>80	<b>15</b>	9	9
Chromium	ppm	ASTM D5185m	>5	<b>1</b>	<1	1
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	0	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185m	>30	<b>9</b>	5	6
Lead	ppm	ASTM D5185m	>30	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m	>150	<b>3</b>	2	2
Tin	ppm	ASTM D5185m	>5	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

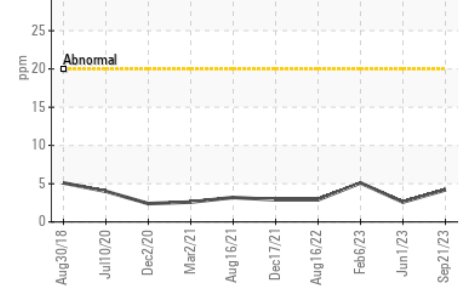
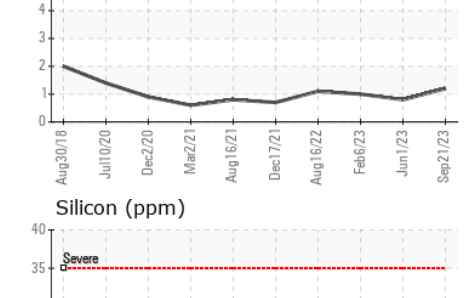
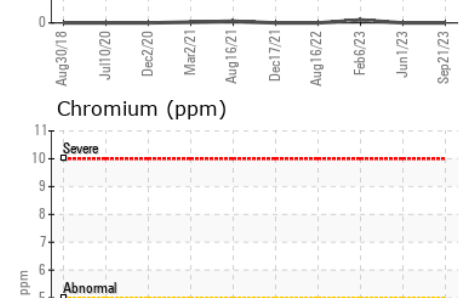
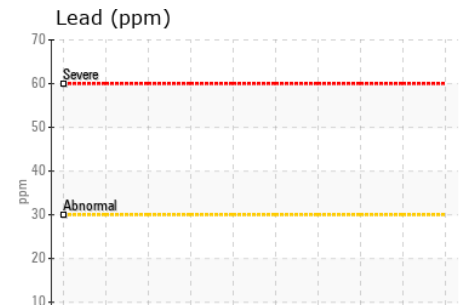
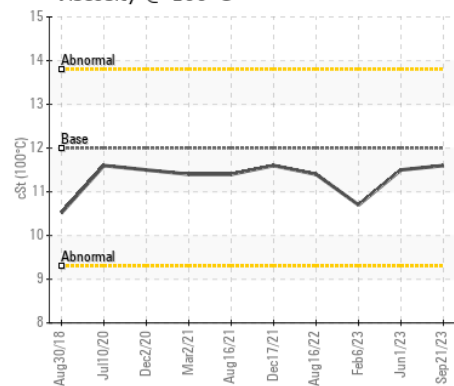
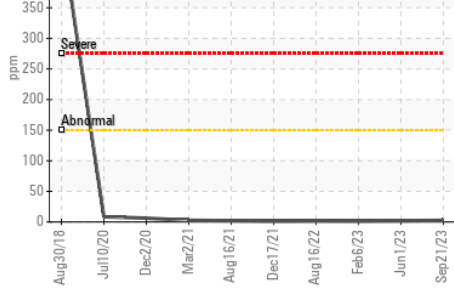
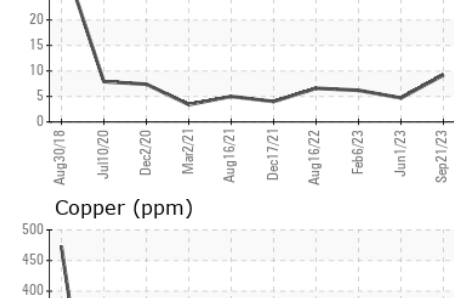
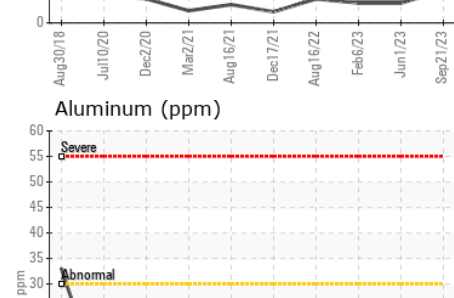
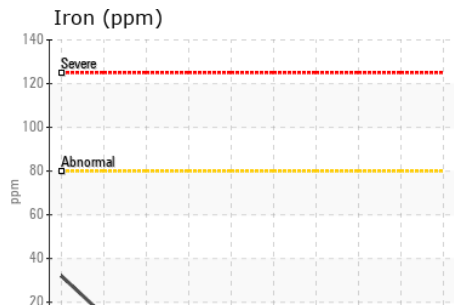
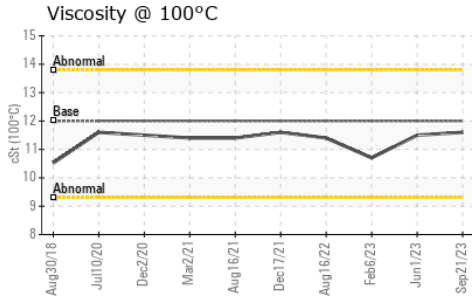
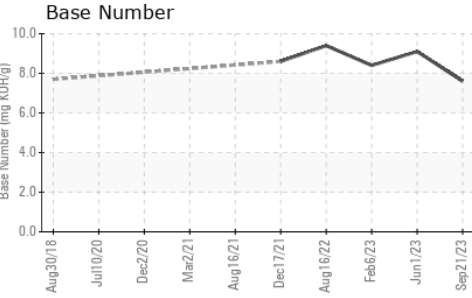
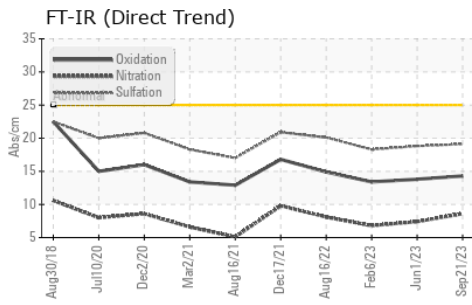
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>4</b>	3	5
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	4	3
Fuel		WC Method	>5	<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
Soot %	%	*ASTM D7844	>3	<b>0.8</b>	0.5	0.4
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.6</b>	7.4	6.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>19.1</b>	18.8	18.3
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	NEG

**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.

Sodium	ppm	ASTM D5185m		<b>2</b>	0	2
Boron	ppm	ASTM D5185m	2	<b>9</b>	15	20
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	50	<b>59</b>	62	57
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	950	<b>863</b>	820	832
Calcium	ppm	ASTM D5185m	1050	<b>1110</b>	1185	1057
Phosphorus	ppm	ASTM D5185m	995	<b>1013</b>	997	924
Zinc	ppm	ASTM D5185m	1180	<b>1206</b>	1160	1141
Sulfur	ppm	ASTM D5185m	2600	<b>3246</b>	3082	3153
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>14.3</b>	13.8	13.4
Base Number (BN)	mg KOH/g	ASTM D2896		<b>7.6</b>	9.1	8.4
Visc @ 100°C	cSt	ASTM D445	12.00	<b>11.6</b>	11.5	10.7



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0099235 **Received** : 22 May 2024  
**Lab Number** : 06187286 **Tested** : 23 May 2024  
**Unique Number** : 11044038 **Diagnosed** : 23 May 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: TBN )

**MILLER TRUCK LEASING #115**  
 575 PROSPECT ST  
 LAKEWOOD, NJ  
 US 08701  
 Contact: MARTIN RUCCI  
 mrucci@millertransgroup.com  
 T:  
 F: (732)364-3682

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)