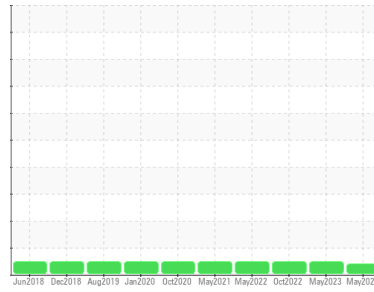


# OIL ANALYSIS REPORT

## Sample Rating Trend



## VISCOSITY



Machine Id  
**PREVOST MOTOR COACH 1053**  
 Component  
**Rear Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 15W40 (--- GAL)**

### DIAGNOSIS

#### Recommendation

Oil and filter change at the time of sampling has been noted. 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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

### SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>PCA0111562</b>	PCA0094184	PCA0076600
Sample Date	Client Info		<b>02 May 2024</b>	12 May 2023	05 Oct 2022
Machine Age	mls	Client Info	<b>634889</b>	617672	605414
Oil Age	mls	Client Info	<b>9340</b>	12258	11704
Oil Changed	Client Info		<b>Changed</b>	Changed	Changed
Sample Status			<b>ATTENTION</b>	NORMAL	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 >150	<b>14</b>	26	24
Chromium	ppm	ASTM D5185m >15	<b>1</b>	1	<1
Nickel	ppm	ASTM D5185m >4	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m >3	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m >15	<b>6</b>	0	1
Lead	ppm	ASTM D5185m >70	<b>&lt;1</b>	2	2
Copper	ppm	ASTM D5185m >175	<b>11</b>	<1	<1
Tin	ppm	ASTM D5185m >5	<b>1</b>	<1	0
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0

### ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	<b>46</b>	<1	2
Barium	ppm	ASTM D5185m 0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m 60	<b>72</b>	62	60
Manganese	ppm	ASTM D5185m 0	<b>2</b>	<1	<1
Magnesium	ppm	ASTM D5185m 1010	<b>512</b>	947	938
Calcium	ppm	ASTM D5185m 1070	<b>1004</b>	1066	1066
Phosphorus	ppm	ASTM D5185m 1150	<b>701</b>	1039	998
Zinc	ppm	ASTM D5185m 1270	<b>793</b>	1225	1230
Sulfur	ppm	ASTM D5185m 2060	<b>3011</b>	2948	3592

### CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>11</b>	3	4
Sodium	ppm	ASTM D5185m	<b>4</b>	<1	1
Potassium	ppm	ASTM D5185m >20	<b>3</b>	1	0
Fuel	%	ASTM D3524 >3.0	<b>0.7</b>	<1.0	<1.0

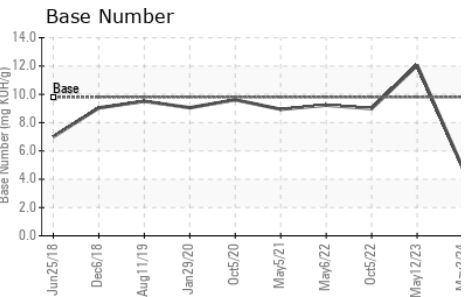
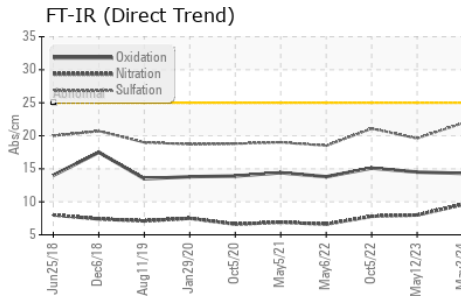
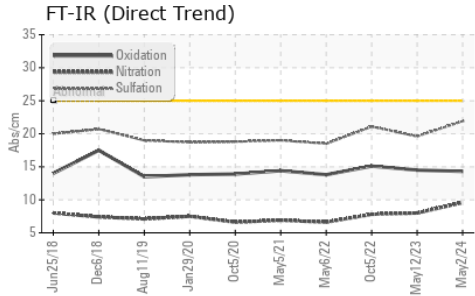
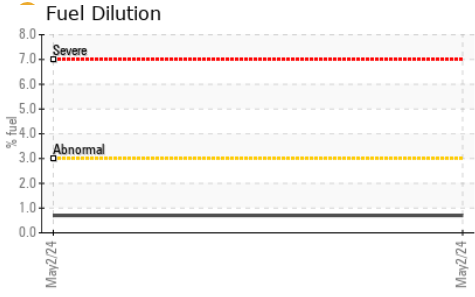
### INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0.1</b>	0.9	1
Nitration	Abs/cm	*ASTM D7624 >20	<b>9.6</b>	8.0	7.8
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>21.9</b>	19.6	21.1

### FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>14.3</b>	14.5	15.1
Base Number (BN)	mg KOH/g	ASTM D2896 9.8	<b>4.81</b>	12.05	8.99

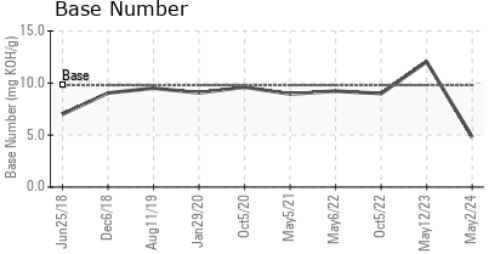
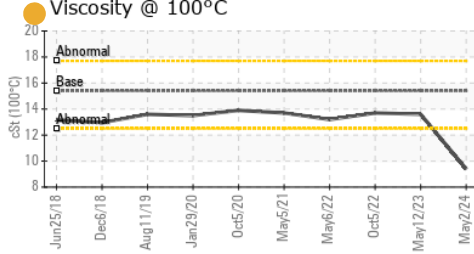
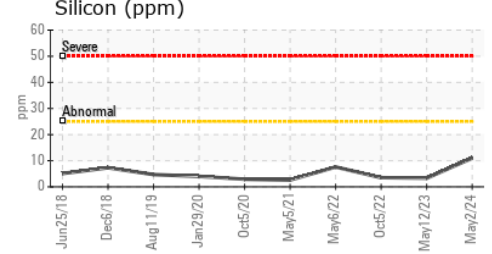
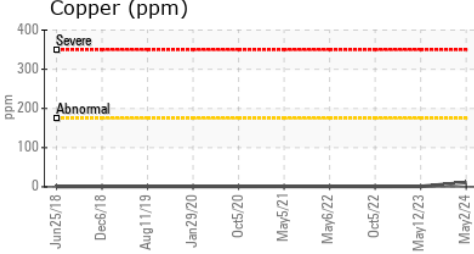
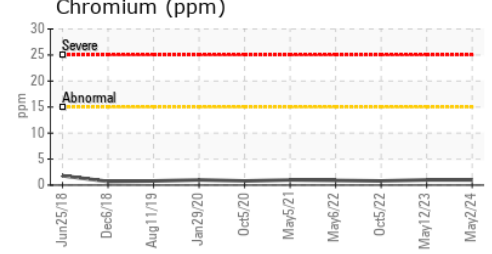
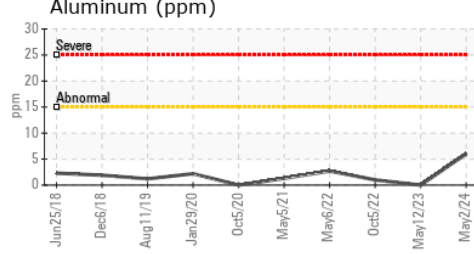
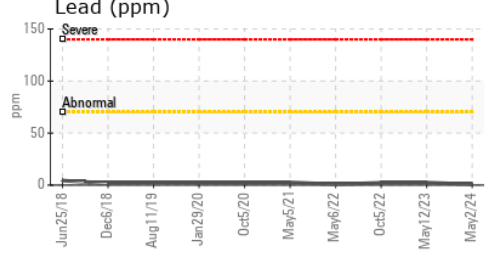
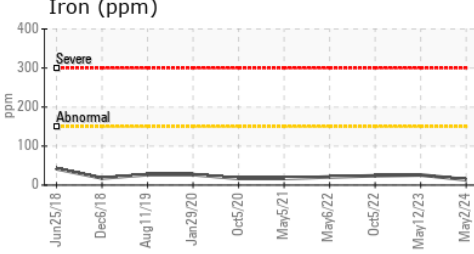
# OIL ANALYSIS REPORT



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	15.4	9.4	13.6

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0111562 **Received** : 21 May 2024  
**Lab Number** : 06186386 **Tested** : 29 May 2024  
**Unique Number** : 11043138 **Diagnosed** : 29 May 2024 - Don Baldrige  
**Test Package** : MOB 2 ( Additional Tests: FuelDilution, PercentFuel )

**BROWN BUS COMPANY - UPSTATE TRANSIT**  
 50 VENNERS ROAD  
 AMSTERDAM, NY  
 US 12010  
 Contact: CONNIE WILBUR  
 cwilbur@browncoach.com  
 T: (518)843-4700  
 F: (518)843-3600

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)