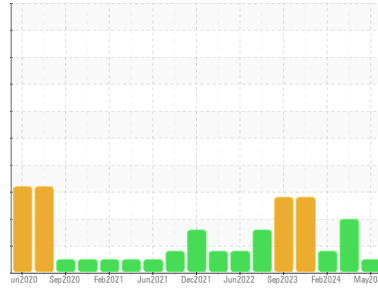


# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id

**1203**

Component

**Diesel Engine**

Fluid

**PETRO CANADA DURON HP 15W40 (24 LTR)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### 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>PC0080625</b>	PC0081950	PC0081598
Sample Date	Client Info			<b>11 May 2024</b>	25 Apr 2024	15 Feb 2024
Machine Age	kms	Client Info		<b>689910</b>	688383	675250
Oil Age	kms	Client Info		<b>1527</b>	12819	13430
Oil Changed	Client Info			<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	ABNORMAL	ABNORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>5		<b>&lt;1.0</b>	0.8	1
Water	WC Method	>0.2		<b>NEG</b>	NEG	NEG
Glycol	WC Method			<b>NEG</b>	0.0	NEG

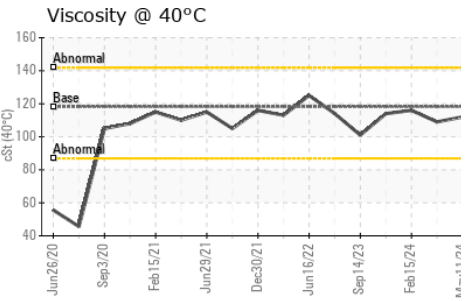
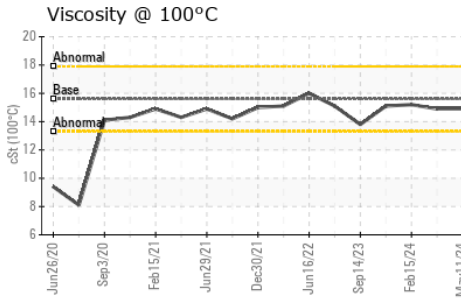
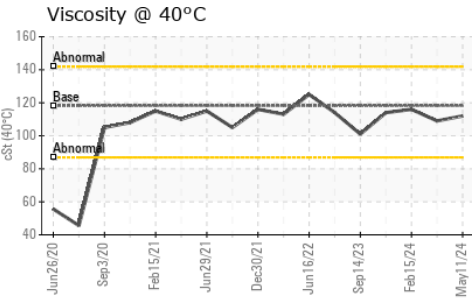
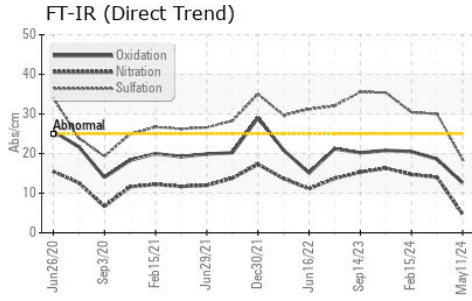
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	<b>5</b>	73	69
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	2	2
Nickel	ppm	ASTM D5185(m)	>4	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	4	4
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	0	<1
Copper	ppm	ASTM D5185(m)	>330	<b>&lt;1</b>	4	4
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0	0
Antimony	ppm	ASTM D5185(m)		<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	<b>2</b>	5	3
Barium	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	60	<b>60</b>	79	67
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	<b>972</b>	1079	1067
Calcium	ppm	ASTM D5185(m)	1070	<b>1022</b>	1204	1230
Phosphorus	ppm	ASTM D5185(m)	1150	<b>1024</b>	1088	1108
Zinc	ppm	ASTM D5185(m)	1270	<b>1164</b>	1301	1299
Sulfur	ppm	ASTM D5185(m)	2060	<b>2608</b>	2505	2635
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	<b>11</b>	14	7
Sodium	ppm	ASTM D5185(m)		<b>73</b>	457	43
Potassium	ppm	ASTM D5185(m)	>20	<b>0</b>	3	1

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	<b>0.1</b>	4	4.1
Nitration	Abs/cm	ASTM D7624*	>20	<b>4.7</b>	14.0	14.7
Sulfation	Abs./1mm	ASTM D7415*	>30	<b>18.6</b>	30.0	30.4

# OIL ANALYSIS REPORT

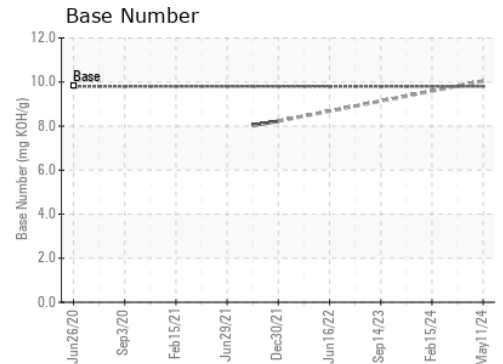
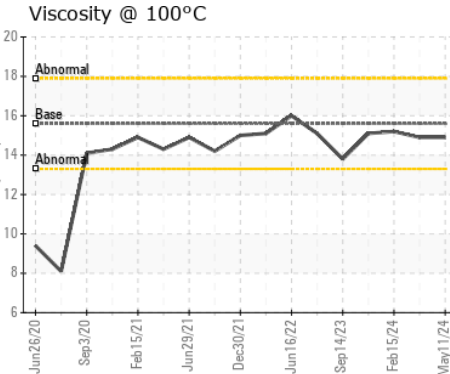
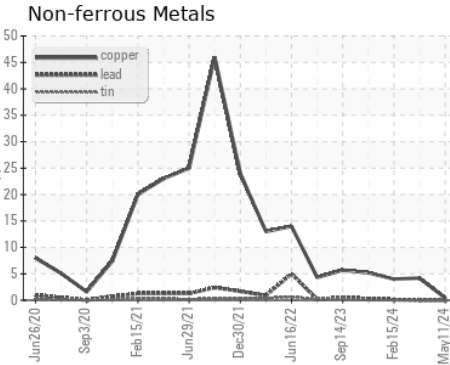
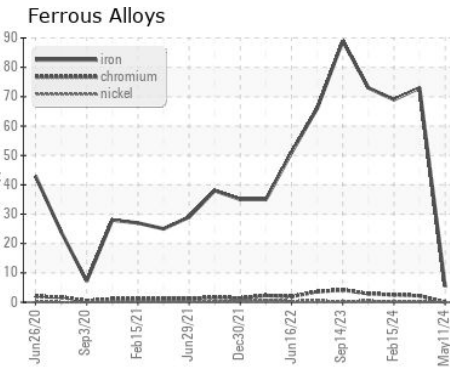


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	<b>12.6</b>	18.6	20.5
Base Number (BN)	mg KOH/g	ASTM D2896*	9.8	<b>10.05</b>	---	---

VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG
Free Water	scalar	Visual*		<b>NEG</b>	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	118.2	<b>112</b>	109	116
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	<b>14.9</b>	14.9	15.2
Viscosity Index (VI)	Scale	ASTM D2270*	139	<b>137</b>	141	136

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0080625 **Received** : 29 May 2024  
**Lab Number** : **02638324** **Tested** : 29 May 2024  
**Unique Number** : 5787486 **Diagnosed** : 29 May 2024 - Wes Davis  
**Test Package** : IND 2 ( Additional Tests: KV40, VI )

**Metrobus Transit**  
 25 Messenger Drive  
 St. John's, NL  
 CA A1B 0H6  
 Contact: Danny Oliver  
 danny.oliver@metrobus.com  
 T: (709)570-2025  
 F:

To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.