



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**1524**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON HP 15W40 (24 LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PC0082760</b>	PC0081666	PC0076693
Sample Date		Client Info		<b>10 Apr 2024</b>	30 Jan 2024	22 Nov 2023
Machine Age	kms	Client Info		<b>583316</b>	570021	558424
Oil Age	kms	Client Info		<b>13295</b>	11597	12298
Filter Age	kms	Client Info		<b>13295</b>	11597	12298
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	ATTENTION	ATTENTION

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	<b>22</b>	25	32
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
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>	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	<b>2</b>	3	3
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>330	<b>1</b>	1	2
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	---	VLITE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	---	NONE

**CONTAMINATION**

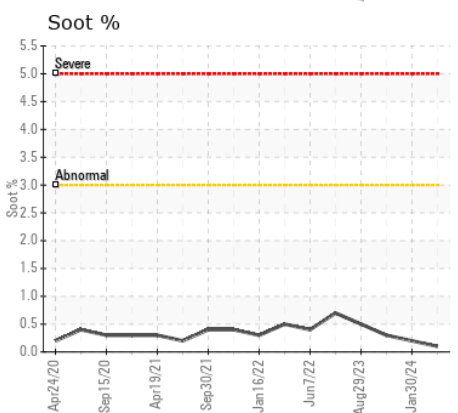
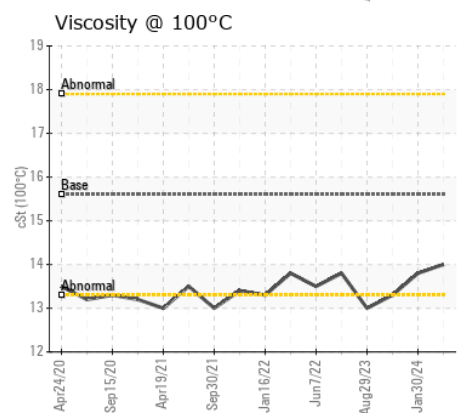
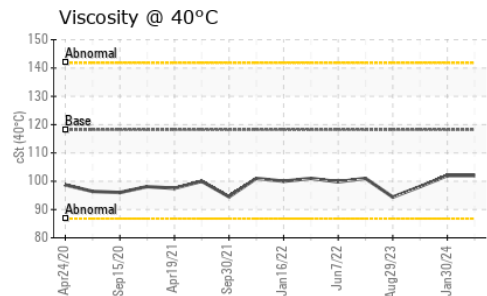
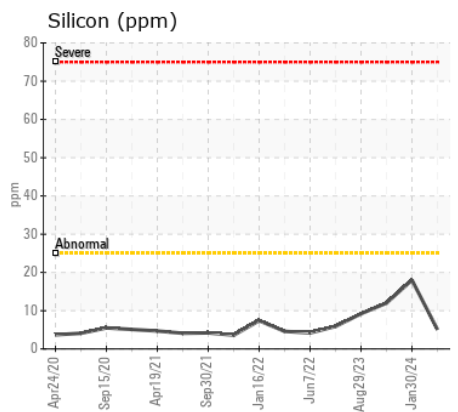
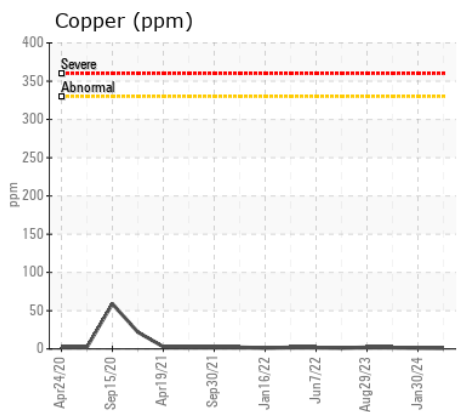
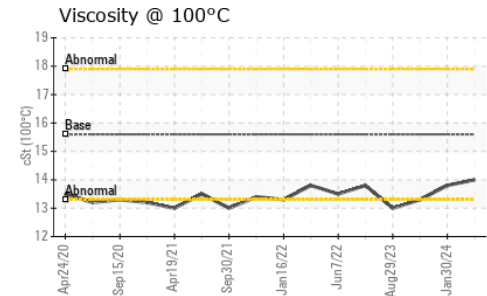
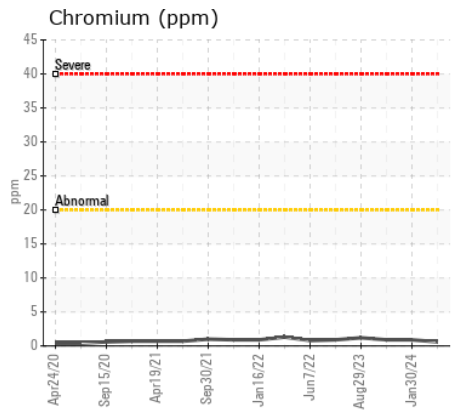
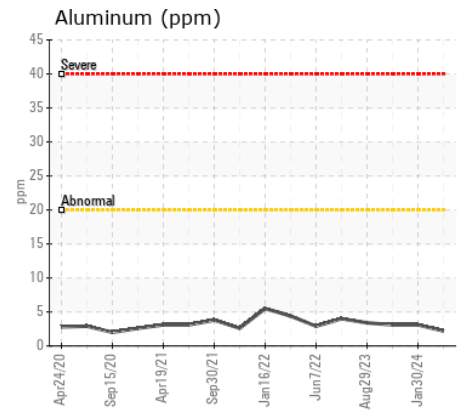
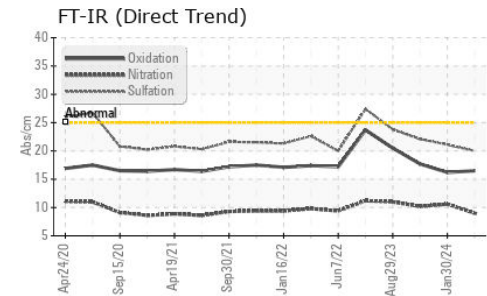
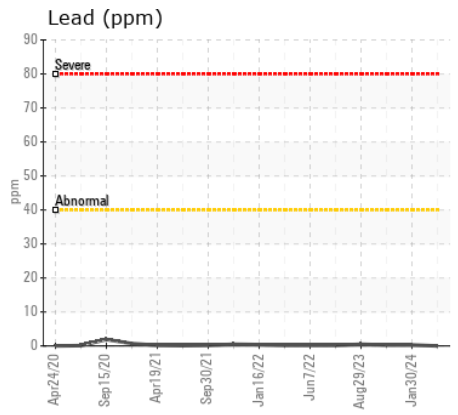
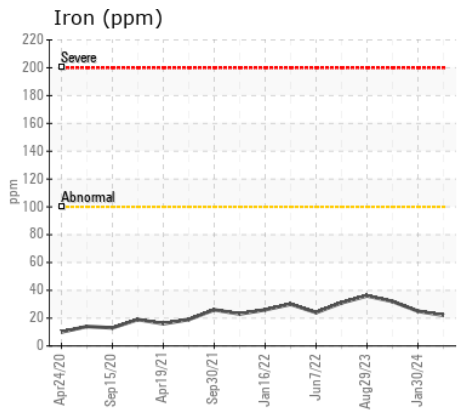
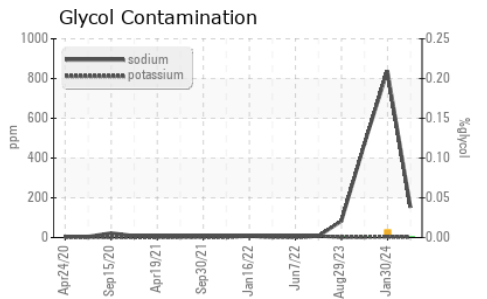
Test for glycol is negative. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>5</b>	18	12
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	3	2
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol	%	ASTM D7922*		<b>0.0</b>	▲ 0.01	0.0
Soot %	%	ASTM D7844*	>3	<b>0.1</b>	0.2	0.3
Nitration	Abs/cm	ASTM D7624*	>20	<b>9.0</b>	10.6	10.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>20.0</b>	21.1	22.1
Silt	scalar	Visual*	NONE	<b>NONE</b>	---	NONE
Debris	scalar	Visual*	NONE	<b>NONE</b>	---	NONE
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	---	NONE
Appearance	scalar	Visual*	NORML	<b>NORML</b>	---	NORML
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		<b>152</b>	● 838	● 472
Boron	ppm	ASTM D5185(m)	0	<b>3</b>	12	7
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185(m)	60	<b>65</b>	87	75
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)	1010	<b>1010</b>	977	964
Calcium	ppm	ASTM D5185(m)	1070	<b>1121</b>	1134	1128
Phosphorus	ppm	ASTM D5185(m)	1150	<b>1012</b>	1037	1066
Zinc	ppm	ASTM D5185(m)	1270	<b>1230</b>	1238	1248
Sulfur	ppm	ASTM D5185(m)	2060	<b>2519</b>	2824	2549
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>16.5</b>	16.2	17.7
Visc @ 40°C	cSt	ASTM D7279(m)	118.2	<b>102</b>	102	98.1
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	<b>14.0</b>	13.8	13.3
Viscosity Index (VI)	Scale	ASTM D2270*	139	<b>139</b>	136	134



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0082760 **Received** : 03 May 2024  
**Lab Number** : 02633052 **Tested** : 03 May 2024  
**Unique Number** : 5774205 **Diagnosed** : 03 May 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: Glycol, KV40, VI, Visual )

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.

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