



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Machine Id  
**1629**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON HP 15W40 (24 LTR)**

## RECOMMENDATION

Check for low coolant level. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

## WEAR

All component wear rates are normal.

## CONTAMINATION

Water treatment chemicals present, indicating slow coolant leak. Test for glycol is negative. There is no indication of any contamination in the oil.

## FLUID CONDITION

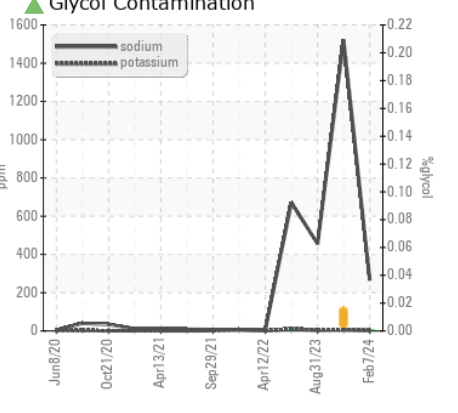
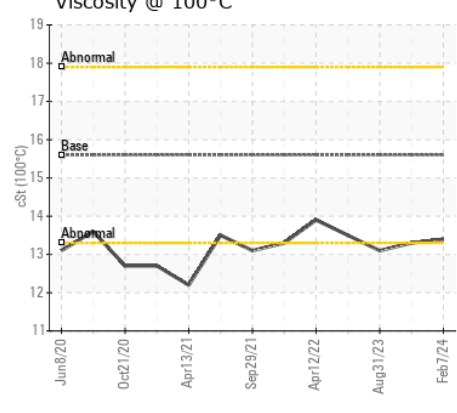
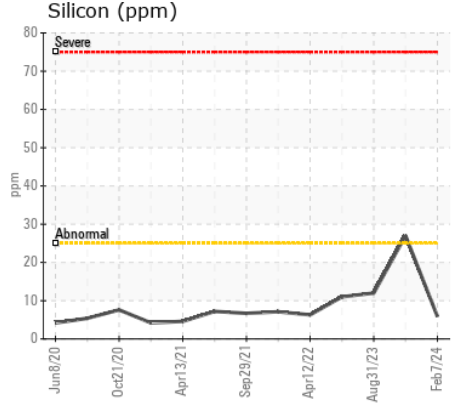
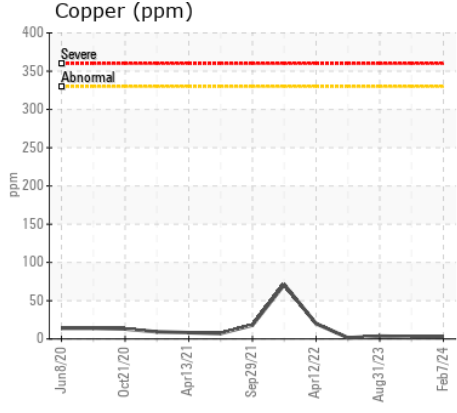
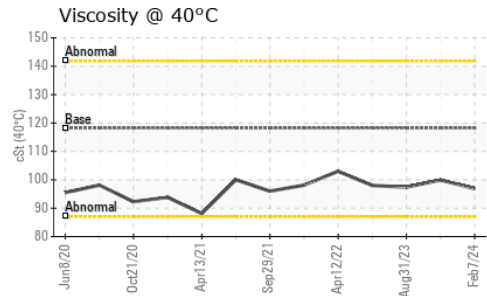
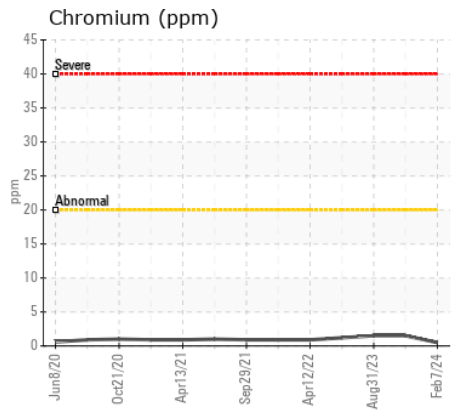
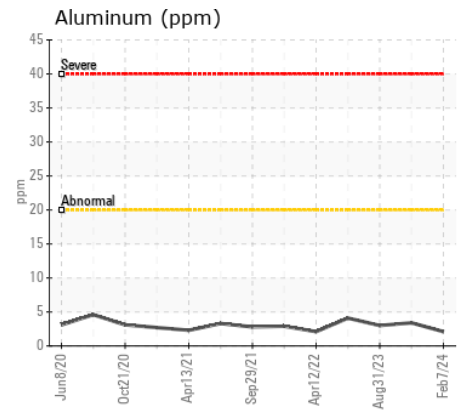
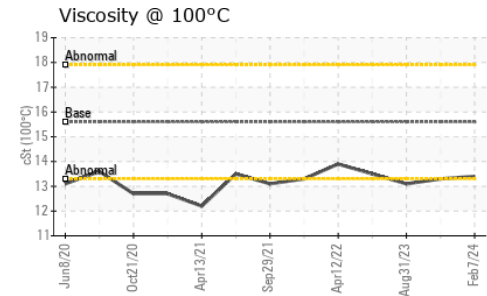
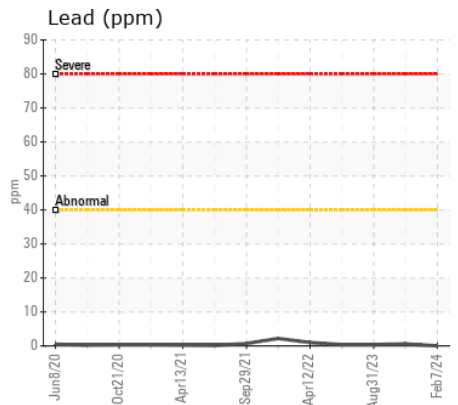
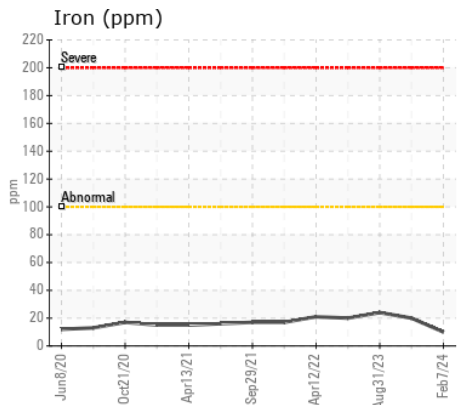
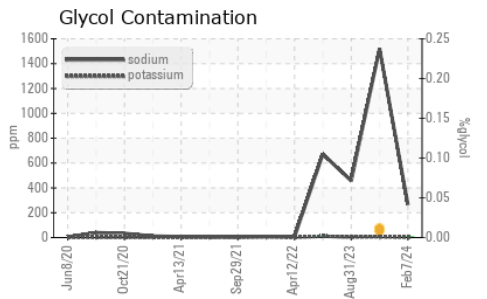
The condition of the oil is acceptable for the time in service (see recommendation).

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PC0082737</b>	PC0076695	PC0031844
Sample Date		Client Info		<b>07 Feb 2024</b>	22 Nov 2023	31 Aug 2023
Machine Age	kms	Client Info		<b>535910</b>	521481	508268
Oil Age	kms	Client Info		<b>14429</b>	13213	508628
Filter Age	kms	Client Info		<b>14429</b>	13213	508628
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>ATTENTION</b>	ABNORMAL	ATTENTION

Iron	ppm	ASTM D5185(m)	>100	<b>10</b>	20	24
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	2	2
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	<1	0
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>3</b>	3	4
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

Silicon	ppm	ASTM D5185(m)	>25	<b>6</b>	27	12
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	▲ 6	4
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	▲ 2.4
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol	%	ASTM D7922*		<b>0.0</b>	▲ 0.017	0.0
Soot %	%	ASTM D7844*	>3	<b>0</b>	0.2	0.3
Nitration	Abs/cm	ASTM D7624*	>20	<b>7.5</b>	13.1	11.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>18.9</b>	23.7	23.8
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG

Sodium	ppm	ASTM D5185(m)		▲ <b>265</b>	▲ 1520	▲ 456
Boron	ppm	ASTM D5185(m)	0	<b>9</b>	29	9
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185(m)	60	<b>66</b>	118	72
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	<b>934</b>	959	907
Calcium	ppm	ASTM D5185(m)	1070	<b>1141</b>	1164	1291
Phosphorus	ppm	ASTM D5185(m)	1150	<b>1014</b>	1094	1083
Zinc	ppm	ASTM D5185(m)	1270	<b>1170</b>	1270	1263
Sulfur	ppm	ASTM D5185(m)	2060	<b>2849</b>	2652	2605
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>14.5</b>	17.8	19.3
Visc @ 40°C	cSt	ASTM D7279(m)	118.2	<b>96.9</b>	99.9	97.4
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	<b>13.4</b>	13.3	13.1
Viscosity Index (VI)	Scale	ASTM D2270*	139	<b>137</b>	131	132



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0082737 **Received** : 23 Feb 2024  
**Lab Number** : 02617607 **Tested** : 23 Feb 2024  
**Unique Number** : 5734717 **Diagnosed** : 26 Feb 2024 - Kevin Marson  
**Test Package** : MOB 1 ( Additional Tests: Glycol, KV40, VI )

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: