



Machine Id
0962
 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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0081943	PC0081717	PC0081592
Sample Date		Client Info		08 May 2024	01 Apr 2024	20 Feb 2024
Machine Age	kms	Client Info		870810	864118	857083
Oil Age	kms	Client Info		13220	6528	14921
Filter Age	kms	Client Info		13220	6528	14921
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		Changed	Not Changd	Changed
Sample Status				ATTENTION	NORMAL	ATTENTION

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	34	14	30
Chromium	ppm	ASTM D5185(m)	>20	1	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	0	<1	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	2	2	1
Lead	ppm	ASTM D5185(m)	>40	<1	0	0
Copper	ppm	ASTM D5185(m)	>330	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

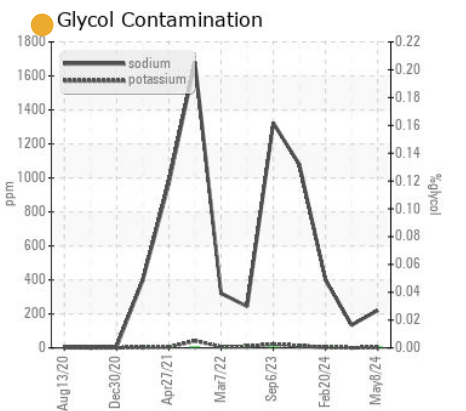
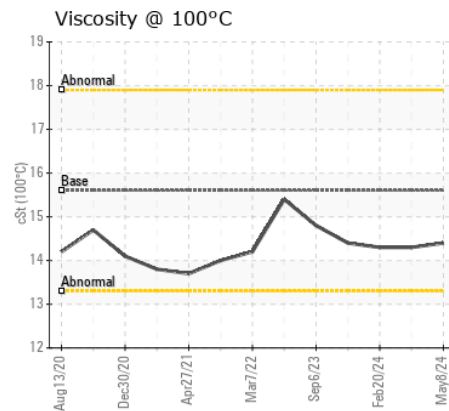
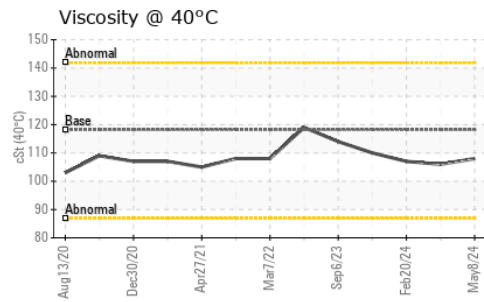
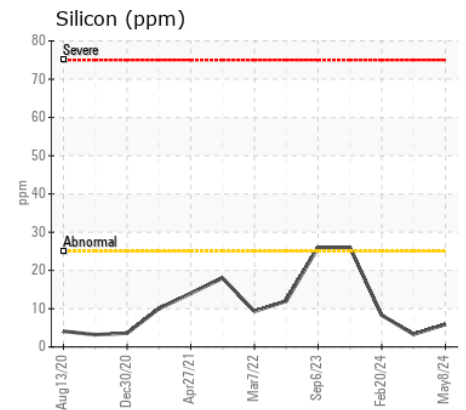
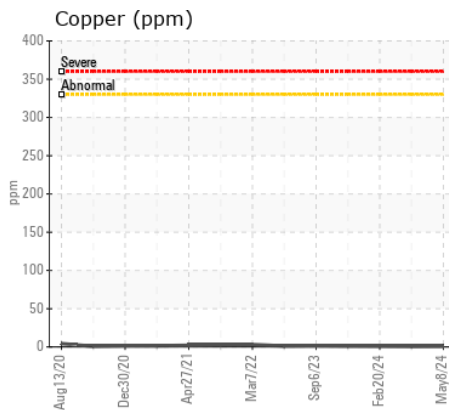
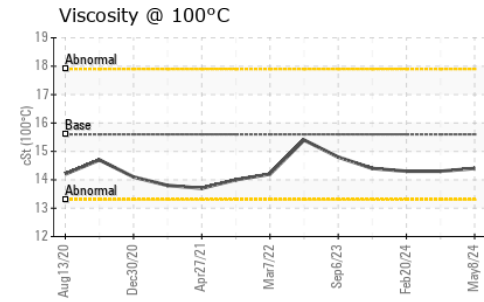
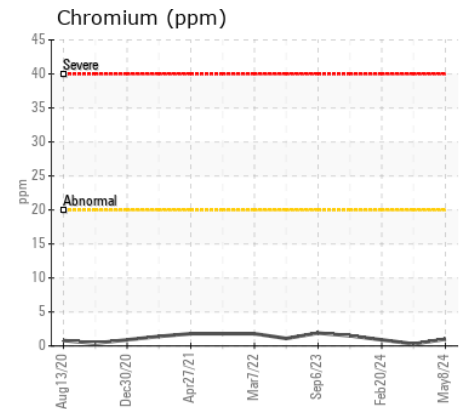
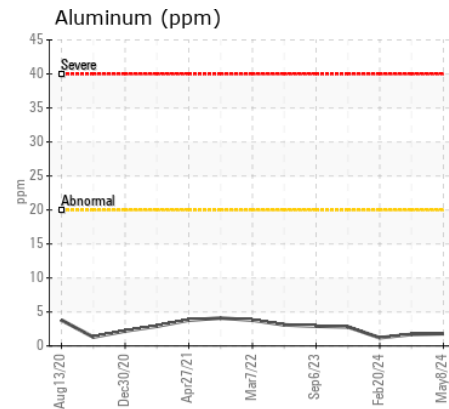
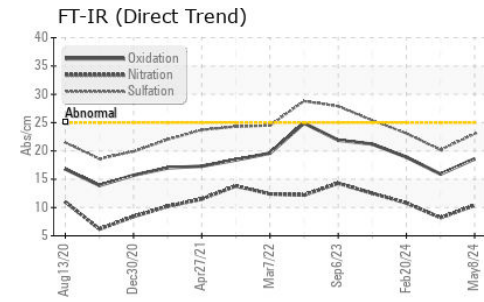
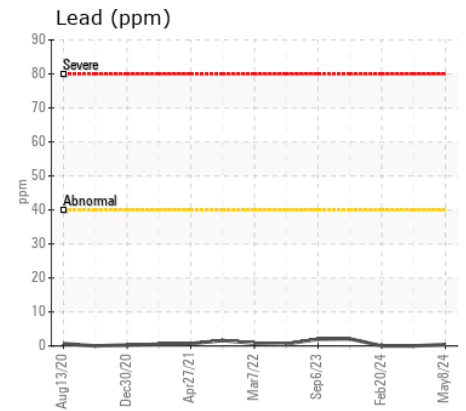
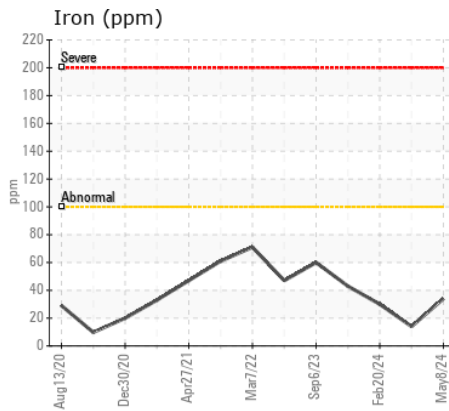
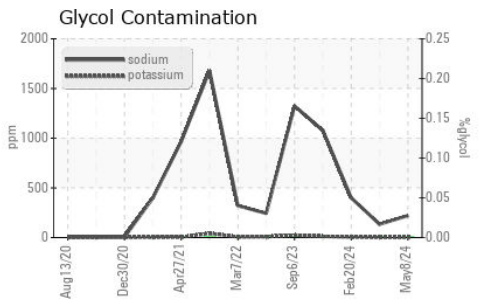
Water treatment chemicals present, indicating slow coolant leak. Test for glycol is negative. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	6	3	8
Potassium	ppm	ASTM D5185(m)	>20	2	1	4
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	ASTM D7922*		0.0	0.0	0.0
Soot %	%	ASTM D7844*	>3	0.4	0.2	0.4
Nitration	Abs/cm	ASTM D7624*	>20	10.4	8.2	10.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.0	20.2	23.1
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		221	134	400
Boron	ppm	ASTM D5185(m)	0	3	3	4
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	70	65	75
Manganese	ppm	ASTM D5185(m)	0	<1	0	0
Magnesium	ppm	ASTM D5185(m)	1010	1046	1009	1037
Calcium	ppm	ASTM D5185(m)	1070	1149	1119	1165
Phosphorus	ppm	ASTM D5185(m)	1150	1074	1021	1021
Zinc	ppm	ASTM D5185(m)	1270	1264	1222	1260
Sulfur	ppm	ASTM D5185(m)	2060	2511	2575	2547
Oxidation	Abs/.1mm	ASTM D7414*	>25	18.6	15.9	18.9
Visc @ 40°C	cSt	ASTM D7279(m)	118.2	108	106	107
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	14.4	14.3	14.3
Viscosity Index (VI)	Scale	ASTM D2270*	139	136	137	136



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0081943 **Received** : 29 May 2024
Lab Number : 02638329 **Tested** : 29 May 2024
Unique Number : 5787491 **Diagnosed** : 30 May 2024 - Kevin Marson
Test Package : MOB 1 (Additional Tests: Glycol, 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.