



WEAR	NORMAL
CONTAMINATION	MARGINAL
FLUID CONDITION	NORMAL

Machine Id
1522
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON HP 15W40 (24 LTR)

RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0078400	PC0081600	PC0076649
Sample Date		Client Info		29 May 2024	26 Feb 2024	15 Nov 2023
Machine Age	kms	Client Info		562217	548538	533366
Oil Age	kms	Client Info		13679	14888	14758
Filter Age	kms	Client Info		13679	14888	14758
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				MARGINAL	NORMAL	MARGINAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	40	31	10
Chromium	ppm	ASTM D5185(m)	>20	1	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<1	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	2	3	1
Lead	ppm	ASTM D5185(m)	>40	0	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

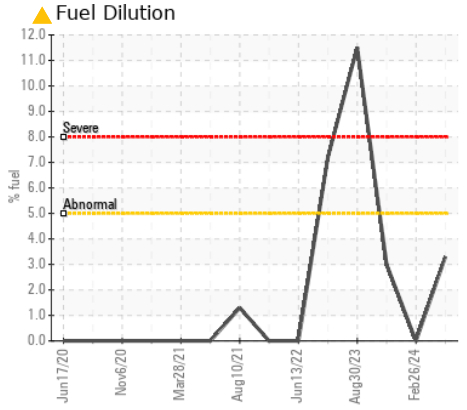
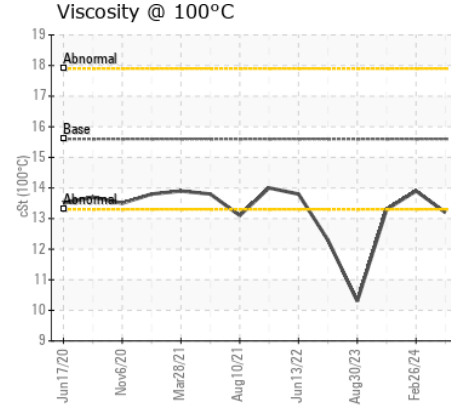
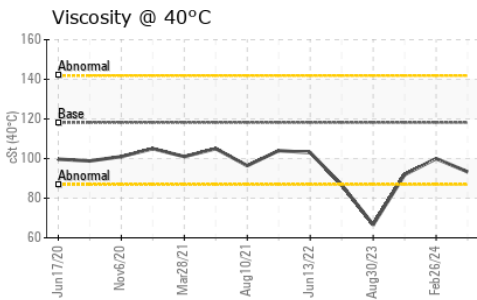
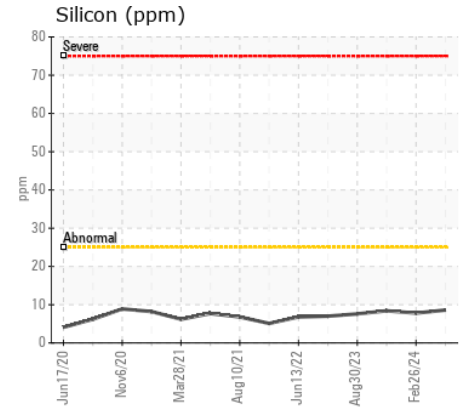
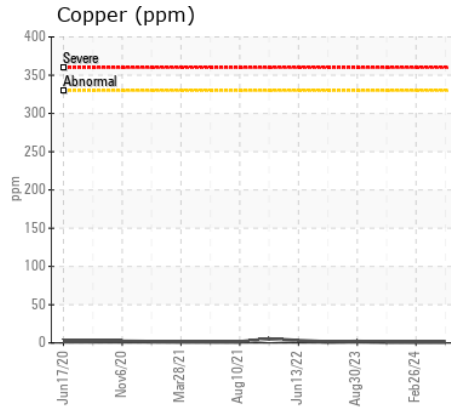
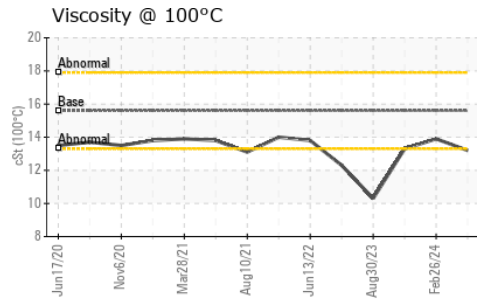
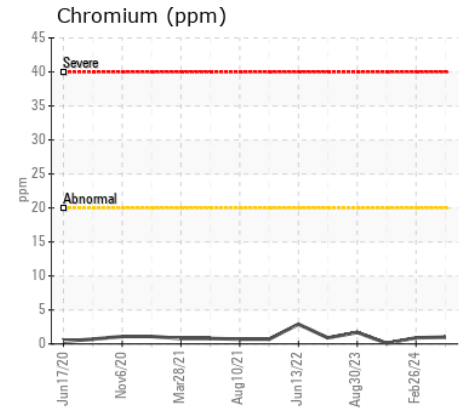
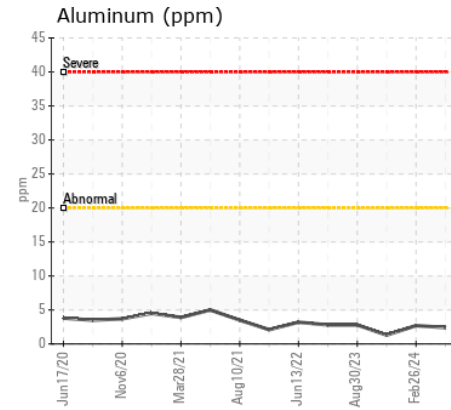
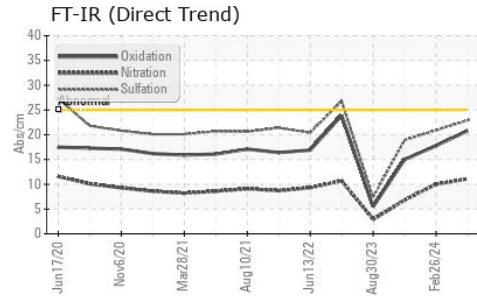
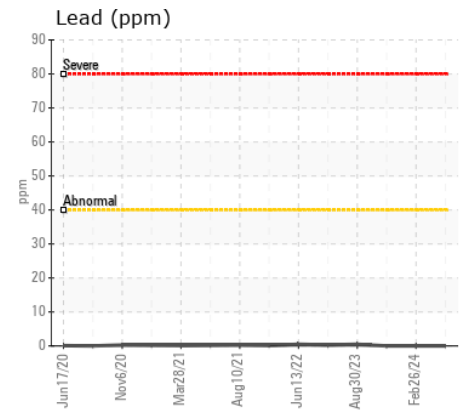
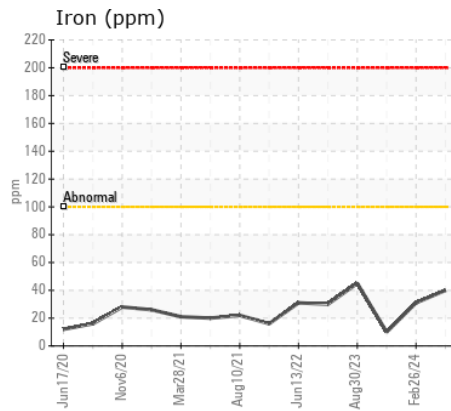
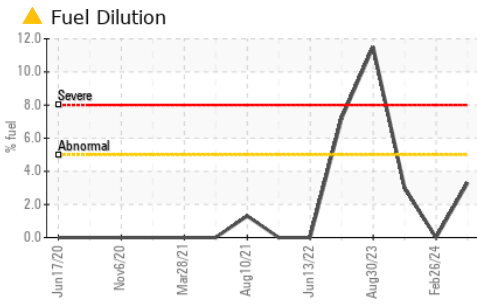
Light fuel dilution occurring. No other contaminants were detected in the oil.

Silicon	ppm	ASTM D5185(m)	>25	9	8	8
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	0
Fuel	%	ASTM D7593*	>5	▲ 3.3	<1.0	▲ 3
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.4	0.6	0.1
Nitration	Abs/cm	ASTM D7624*	>20	11.1	10.0	6.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.9	20.9	18.9
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		39	22	5
Boron	ppm	ASTM D5185(m)	0	2	2	3
Barium	ppm	ASTM D5185(m)	0	0	<1	<1
Molybdenum	ppm	ASTM D5185(m)	60	64	61	57
Manganese	ppm	ASTM D5185(m)	0	<1	0	0
Magnesium	ppm	ASTM D5185(m)	1010	1008	1006	935
Calcium	ppm	ASTM D5185(m)	1070	1140	1132	1029
Phosphorus	ppm	ASTM D5185(m)	1150	1072	1001	963
Zinc	ppm	ASTM D5185(m)	1270	1246	1226	1160
Sulfur	ppm	ASTM D5185(m)	2060	2398	2450	2475
Oxidation	Abs/.1mm	ASTM D7414*	>25	20.8	17.8	15.0
Visc @ 40°C	cSt	ASTM D7279(m)	118.2	93.3	100	91.9
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	13.2	13.9	13.3
Viscosity Index (VI)	Scale	ASTM D2270*	139	140	140	144



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0078400 **Received** : 05 Jun 2024
Lab Number : 02639823 **Tested** : 07 Jun 2024
Unique Number : 5788985 **Diagnosed** : 07 Jun 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: FuelDilution, KV40, PercentFuel, 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: