



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

[809995]

Machine Id

A114

Component

Diesel Engine

Fluid

PETRO CANADA 10W30 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0812454	WC0711615	WC0495070
Sample Date		Client Info		28 Feb 2024	08 Feb 2023	05 Jan 2021
Machine Age	kms	Client Info		59394	49302	14610
Oil Age	kms	Client Info		0	0	0
Filter Age	kms	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	N/A
Filter Changed		Client Info		Changed	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>100	21	21	22
Chromium	ppm	ASTM D5185(m)	>20	1	1	1
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	<1	<1
Silver	ppm	ASTM D5185(m)	>3	1	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	9	8	6
Lead	ppm	ASTM D5185(m)	>40	0	<1	4
Copper	ppm	ASTM D5185(m)	>330	35	40	135
Tin	ppm	ASTM D5185(m)	>15	2	4	3
Vanadium	ppm	ASTM D5185(m)		0	0	<1
White Metal	scalar	Visual*	NONE	VLITE	VLITE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---

CONTAMINATION

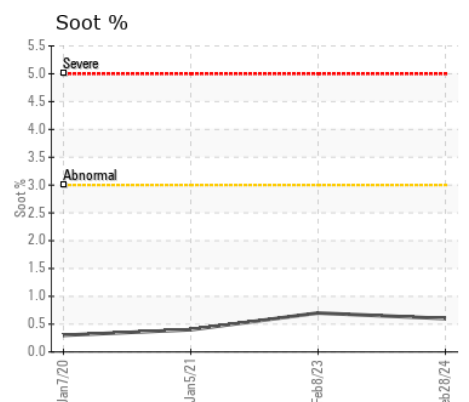
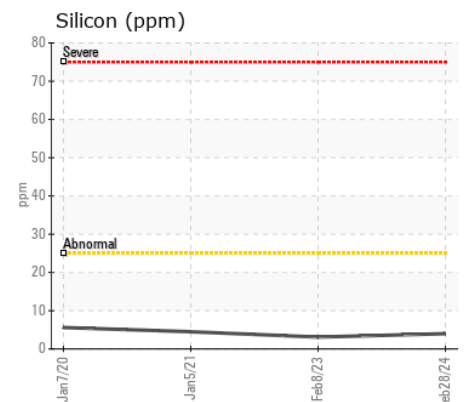
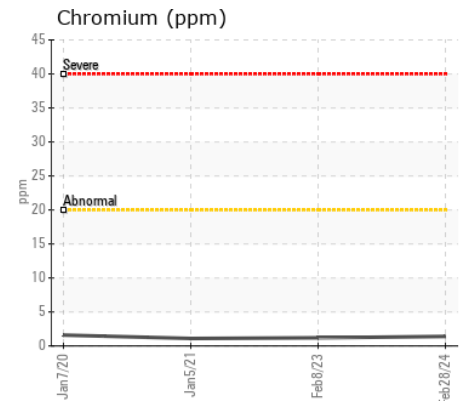
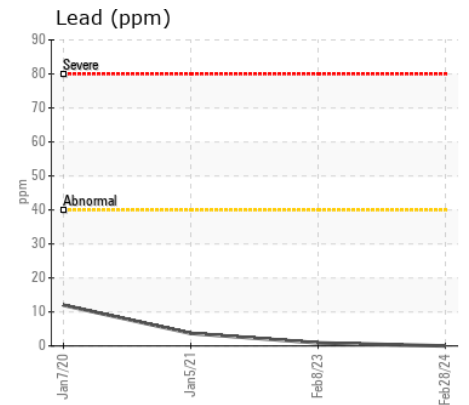
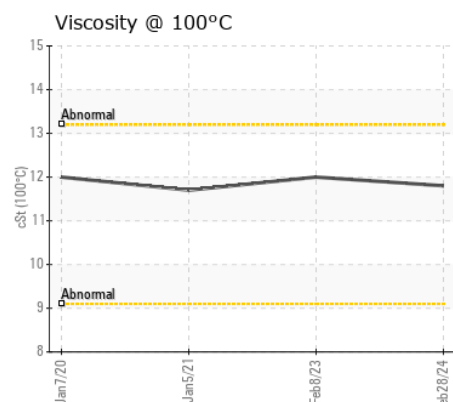
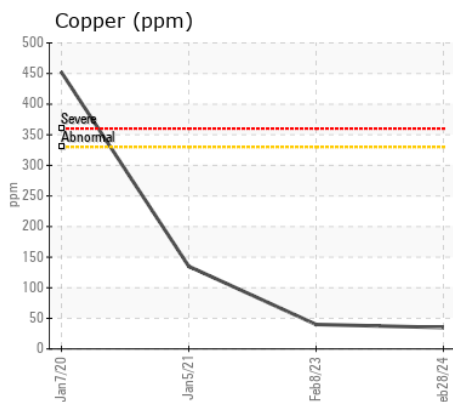
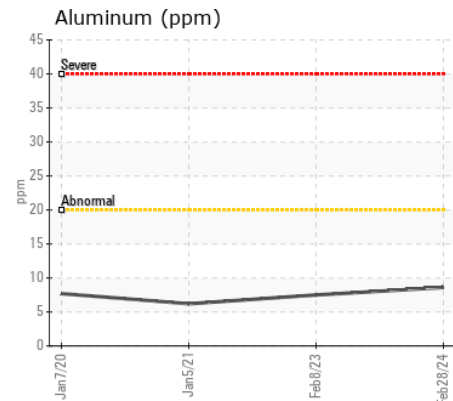
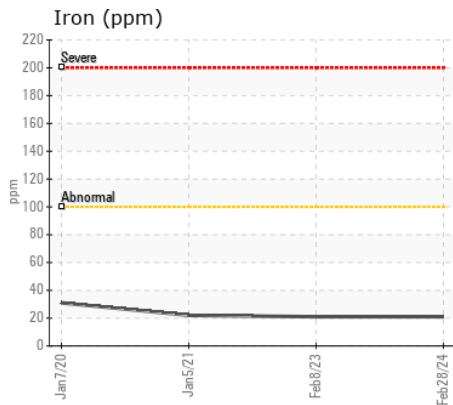
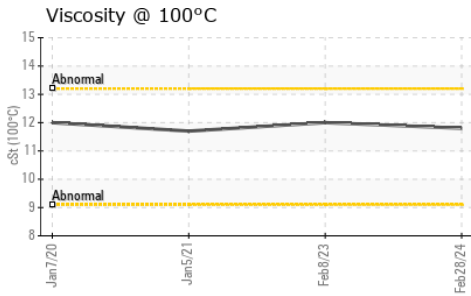
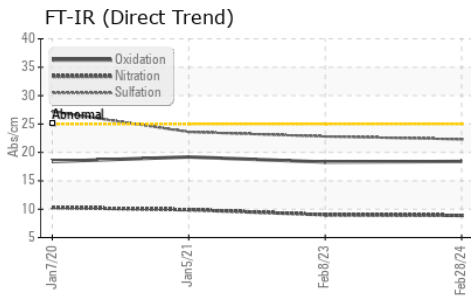
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	4	3	4
Potassium	ppm	ASTM D5185(m)	>20	5	6	6
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.6	0.7	0.4
Nitration	Abs/cm	ASTM D7624*	>20	8.9	9.0	9.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.3	22.8	23.6
Silt	scalar	Visual*	NONE	VLITE	VLITE	---
Debris	scalar	Visual*	NONE	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	NORML	---
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)		2	2	3
Boron	ppm	ASTM D5185(m)		2	2	21
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		63	61	2
Manganese	ppm	ASTM D5185(m)		<1	<1	1
Magnesium	ppm	ASTM D5185(m)		947	950	633
Calcium	ppm	ASTM D5185(m)		1233	1270	1588
Phosphorus	ppm	ASTM D5185(m)		994	1078	728
Zinc	ppm	ASTM D5185(m)		1258	1279	903
Sulfur	ppm	ASTM D5185(m)		2084	2161	2491
Oxidation	Abs/.1mm	ASTM D7414*	>25	18.4	18.3	19.2
Visc @ 100°C	cSt	ASTM D7279(m)		11.8	12.0	11.7



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0812454
Lab Number : 02640632
Unique Number : 5789794
Test Package : MOB 1 (Additional Tests: Visual)

CITY OF MISSISSAUGA FIRE DEPT
 7535 NINTH LINE
 MISSISSAUGA, ON
 CA L5N 7C3
 Contact: Nick Specic
 nicolas.specic@mississauga.ca
 T: (905)615-3753
 F: (905)615-4523

*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.*