



POWER SYSTEMS
SYSTÈMES DE PUISSANCE

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
FIRE STOP ENTERPRISE [281778]

Machine Id
U977060G

Component
Diesel Engine

Fluid
PETRO CANADA 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WA0021292	WA0015981	WA0015362
Sample Date		Client Info		22 Apr 2024	12 Mar 2021	20 Mar 2020
Machine Age	hrs	Client Info		202	199	198
Oil Age	hrs	Client Info		30	0	198
Filter Age	hrs	Client Info		30	0	198
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>250	10	6	30
Chromium	ppm	ASTM D5185(m)	>10	0	<1	<1
Nickel	ppm	ASTM D5185(m)	>5	0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>3	0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>35	1	1	4
Lead	ppm	ASTM D5185(m)	>100	<1	2	9
Copper	ppm	ASTM D5185(m)	>60	32	36	187
Tin	ppm	ASTM D5185(m)	>5	5	1	6
Vanadium	ppm	ASTM D5185(m)		0	0	<1

CONTAMINATION

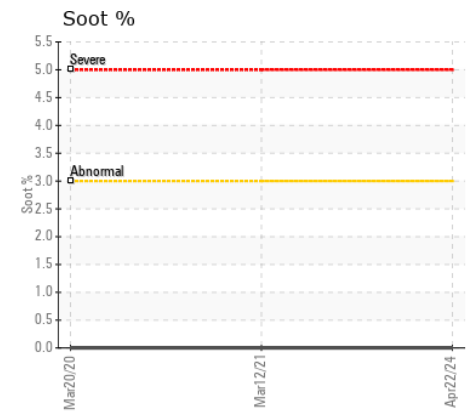
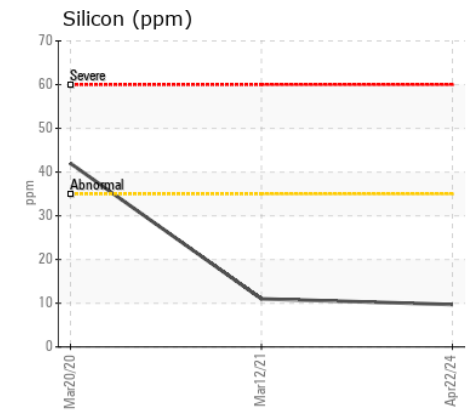
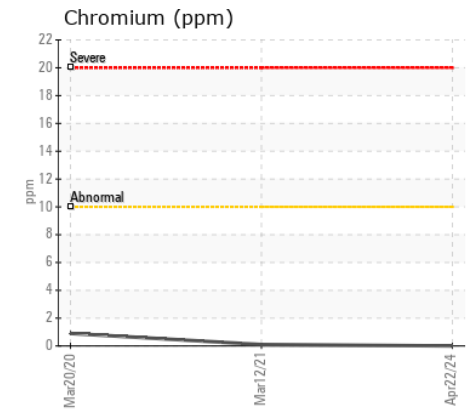
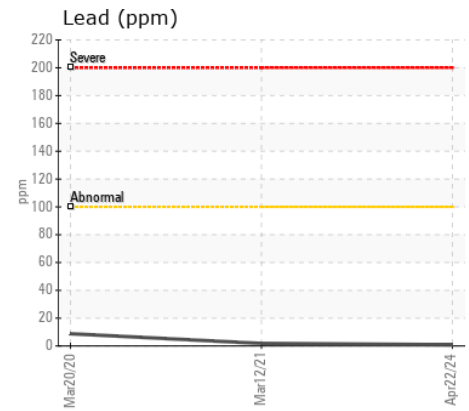
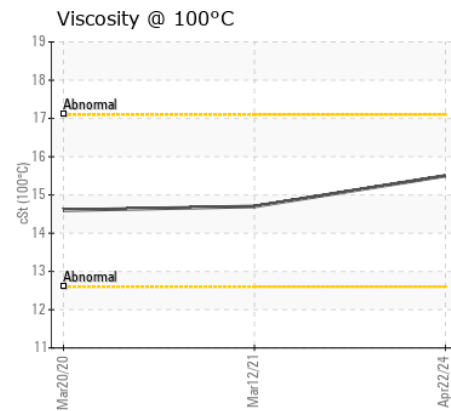
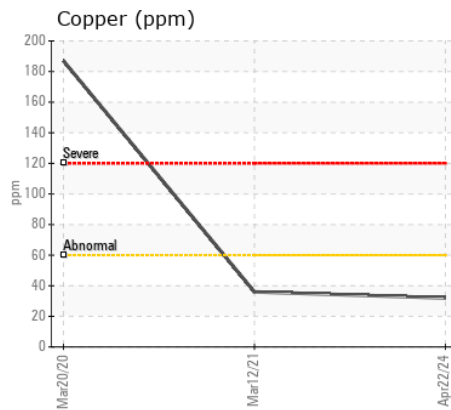
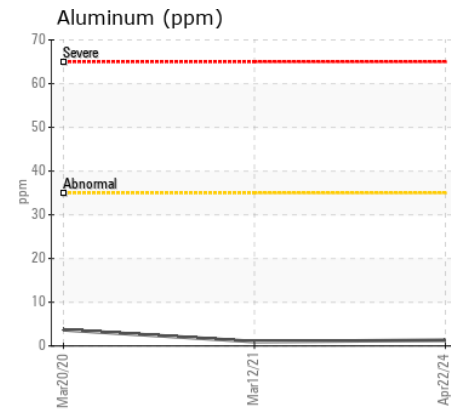
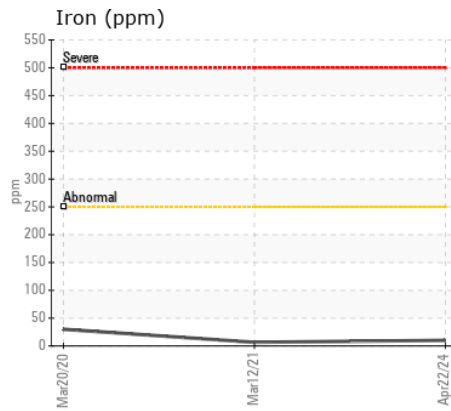
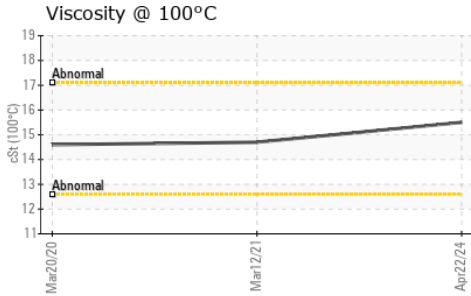
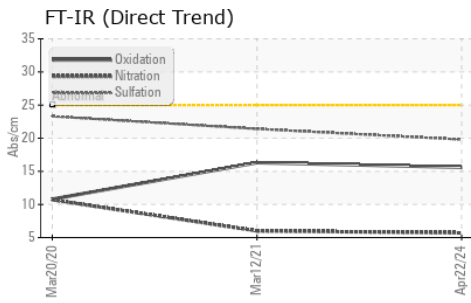
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>35	10	11	42
Potassium	ppm	ASTM D5185(m)	>20	8	8	13
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	0.0	0.0
Soot %	%	ASTM D7844*	>3	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	5.7	6.0	10.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.8	21.4	23.3
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)		3	3	7
Boron	ppm	ASTM D5185(m)		174	170	116
Barium	ppm	ASTM D5185(m)		<1	<1	2
Molybdenum	ppm	ASTM D5185(m)		0	<1	2
Manganese	ppm	ASTM D5185(m)		<1	<1	4
Magnesium	ppm	ASTM D5185(m)		28	85	453
Calcium	ppm	ASTM D5185(m)		2221	2209	2631
Phosphorus	ppm	ASTM D5185(m)		893	958	1095
Zinc	ppm	ASTM D5185(m)		1058	1194	1351
Sulfur	ppm	ASTM D5185(m)		2819	3514	5356
Oxidation	Abs/.1mm	ASTM D7414*	>25	15.6	16.3	10.8
Visc @ 100°C	cSt	ASTM D7279(m)		15.5	14.7	14.6



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WA0021292 **Received** : 30 Apr 2024
Lab Number : 02632282 **Tested** : 30 Apr 2024
Unique Number : 5773435 **Diagnosed** : 30 Apr 2024 - Wes Davis
Test Package : MOB 1

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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.