



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
ST0311

Component
Diesel Engine

Fluid
PETRO CANADA SUPREME SYNTHETIC 5W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0082684	PC0060968	PC0048274
Sample Date		Client Info		20 Mar 2024	01 Mar 2022	05 May 2021
Machine Age	hrs	Client Info		3615	2955	2736
Oil Age	hrs	Client Info		0	0	300
Filter Age	hrs	Client Info		0	0	300
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	4	9	6
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	0	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	1	2	2
Lead	ppm	ASTM D5185(m)	>40	0	<1	0
Copper	ppm	ASTM D5185(m)	>330	0	1	<1
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

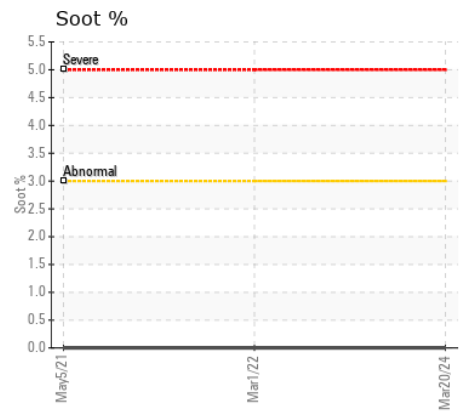
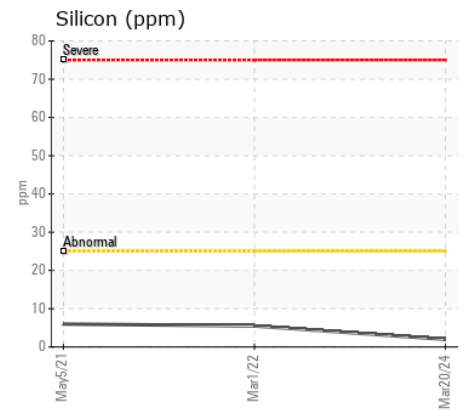
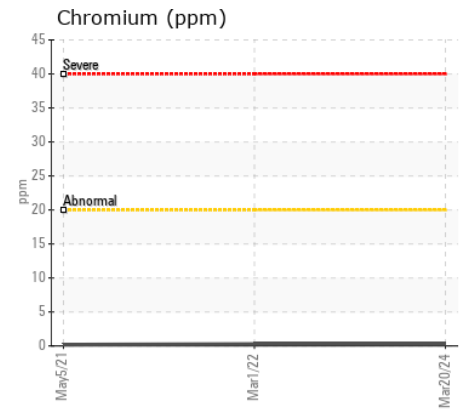
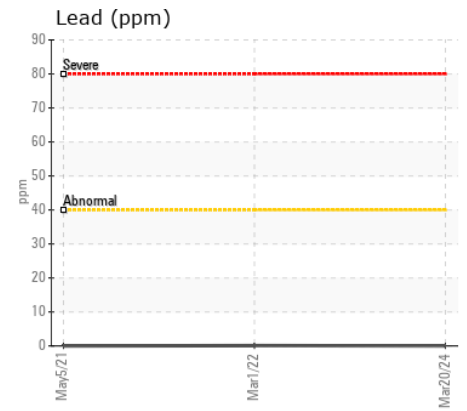
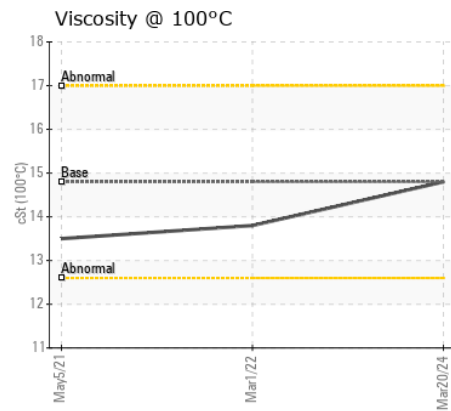
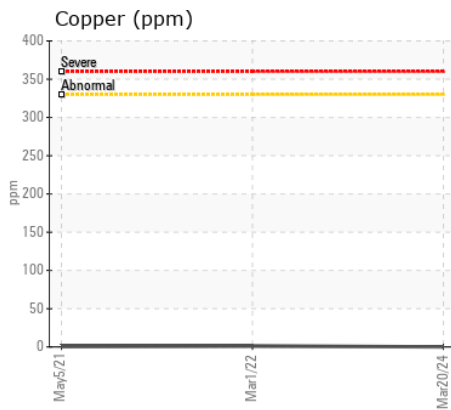
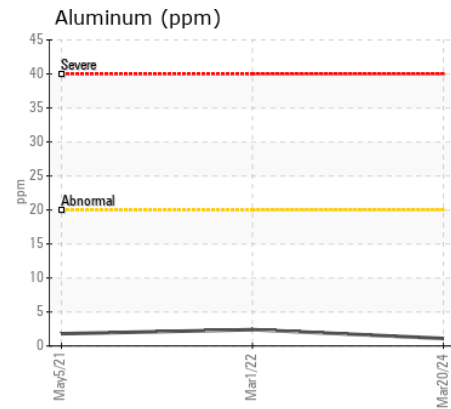
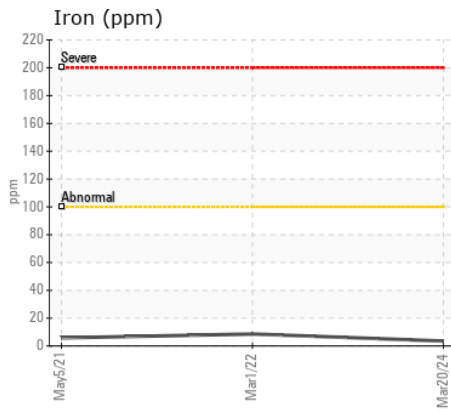
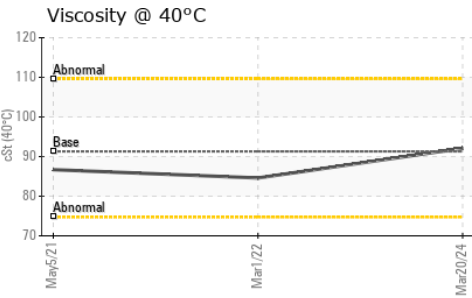
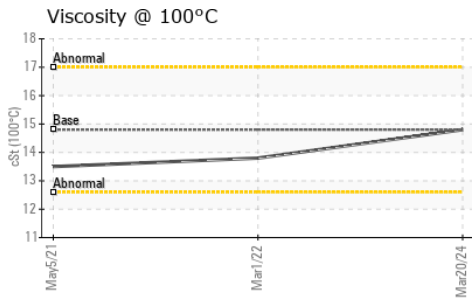
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	2	6	6
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
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	0	0
Nitration	Abs/cm	ASTM D7624*	>20	10.2	8.6	7.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.3	20.7	19.2
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)		4	5	4
Boron	ppm	ASTM D5185(m)	190	39	44	46
Barium	ppm	ASTM D5185(m)	0	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	79	53	60	58
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)	564	1066	1190	997
Calcium	ppm	ASTM D5185(m)	993	800	883	981
Phosphorus	ppm	ASTM D5185(m)	763	923	1068	982
Zinc	ppm	ASTM D5185(m)	835	1133	1264	1219
Sulfur	ppm	ASTM D5185(m)	2536	2530	2854	2887
Oxidation	Abs/.1mm	ASTM D7414*	>25	21.2	18.2	16.2
Visc @ 40°C	cSt	ASTM D7279(m)	91.3	92.1	84.6	86.7
Visc @ 100°C	cSt	ASTM D7279(m)	14.8	14.8	13.8	13.5
Viscosity Index (VI)	Scale	ASTM D2270*	170	168	167	158



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0082684 **Received** : 27 Mar 2024
Lab Number : 02624910 **Tested** : 27 Mar 2024
Unique Number : 5750029 **Diagnosed** : 27 Mar 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: KV40, VI)

Green Infrastructure and Partners Inc (GPI) - 286 - Shoring & Foundations
 151 Ram Forest Rd,
 Stouffville, ON
 CA L4A 2G8
 Contact: Shannon Abbott
 sabbott@gipi.com
 T: (905)750-5900
 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.