

Machine Id
OR890
Component
Diesel Engine
Fluid
PETRO CANADA SUPREME SYNTHETIC 5W40 (8 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0089311	PC0056512	PC0060982
Sample Date		Client Info		20 Apr 2024	08 Mar 2023	21 Mar 2022
Machine Age	hrs	Client Info		8510	8223	7718
Oil Age	hrs	Client Info		0	500	0
Filter Age	hrs	Client Info		0	500	0
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	32	42	24
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	0
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	4	4	3
Lead	ppm	ASTM D5185(m)	>40	0	0	0
Copper	ppm	ASTM D5185(m)	>330	3	4	2
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	VLITE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

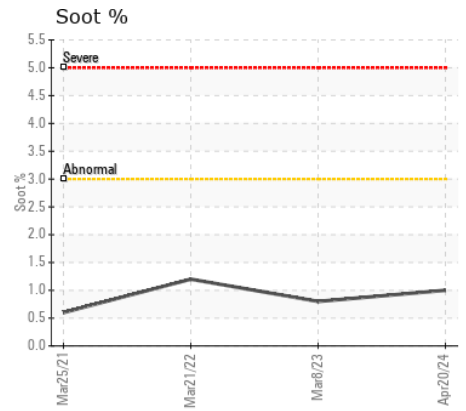
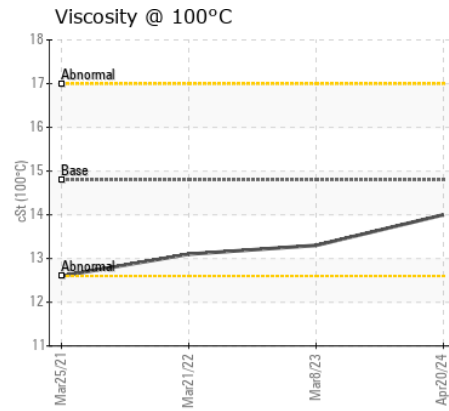
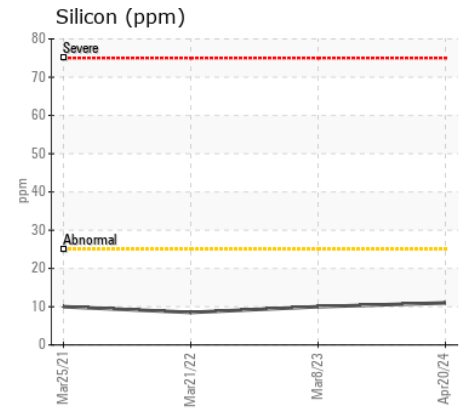
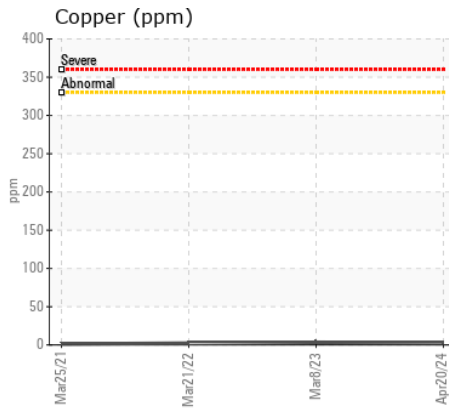
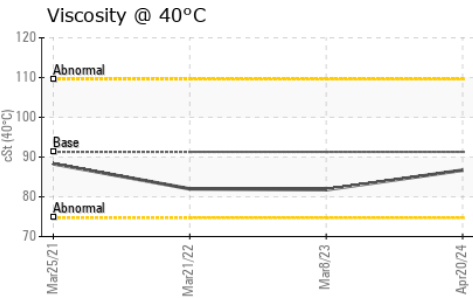
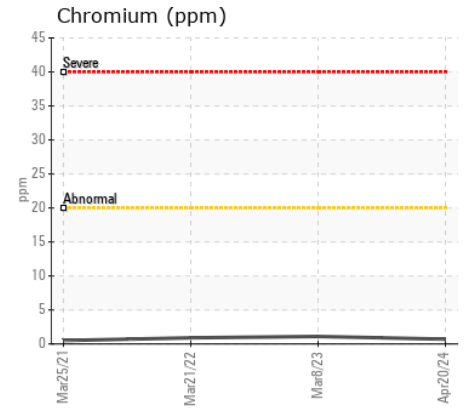
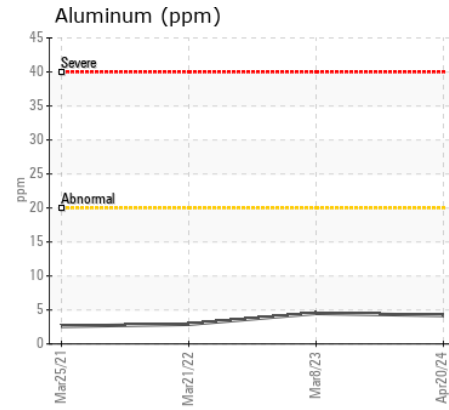
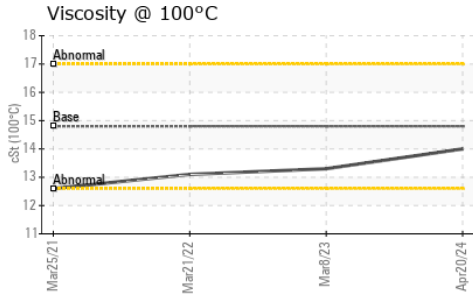
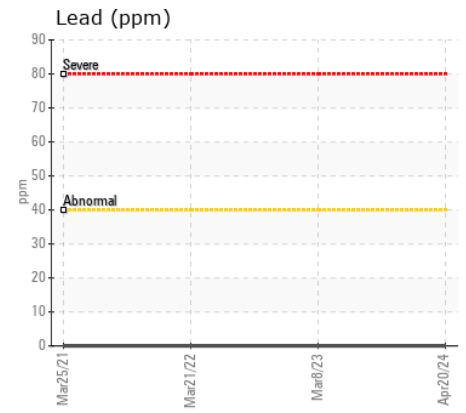
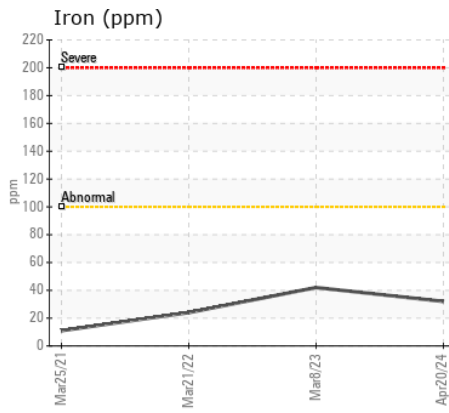
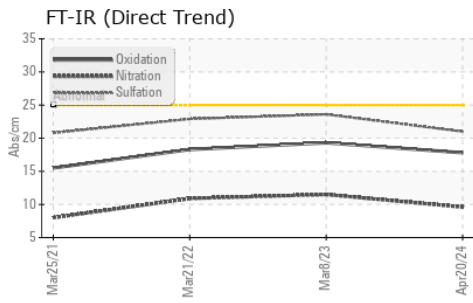
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	11	10	8
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	2
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	1	0.8	1.2
Nitration	Abs/cm	ASTM D7624*	>20	9.6	11.5	10.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.0	23.6	22.9
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	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)		4	5	4
Boron	ppm	ASTM D5185(m)	190	45	39	60
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	79	57	57	54
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	564	1087	1080	1010
Calcium	ppm	ASTM D5185(m)	993	817	912	997
Phosphorus	ppm	ASTM D5185(m)	763	987	1107	1089
Zinc	ppm	ASTM D5185(m)	835	1158	1214	1257
Sulfur	ppm	ASTM D5185(m)	2536	2675	2856	2928
Oxidation	Abs/.1mm	ASTM D7414*	>25	17.8	19.3	18.3
Visc @ 40°C	cSt	ASTM D7279(m)	91.3	86.7	81.8	82.0
Visc @ 100°C	cSt	ASTM D7279(m)	14.8	14.0	13.3	13.1
Viscosity Index (VI)	Scale	ASTM D2270*	170	166	164	160



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0089311 **Received** : 25 Apr 2024
Lab Number : 02631262 **Tested** : 25 Apr 2024
Unique Number : 5772415 **Diagnosed** : 25 Apr 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: KV40, VI, Visual)

Green Infrastructure and Partners Inc (GIPI) - 286 - Shoring & Foundations
 151 Ram Forest Rd,
 Stouffville, ON
 CA L4A 2G8
 Contact: Bill Acton
 bacton@gipi.com

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.

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