

Machine Id
425-0000
Component
Diesel Engine
Fluid
PETRO CANADA 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0073075	PC0073082	PC0059171
Sample Date		Client Info		24 May 2024	18 Apr 2024	05 Apr 2022
Machine Age	hrs	Client Info		265	4171	1391
Oil Age	hrs	Client Info		265	85	200
Filter Age	hrs	Client Info		265	85	200
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)	>100	18	14	6
Chromium	ppm	ASTM D5185(m)	>20	2	2	<1
Nickel	ppm	ASTM D5185(m)	>4	0	0	<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	5	3
Lead	ppm	ASTM D5185(m)	>40	2	4	0
Copper	ppm	ASTM D5185(m)	>330	4	4	<1
Tin	ppm	ASTM D5185(m)	>15	1	2	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

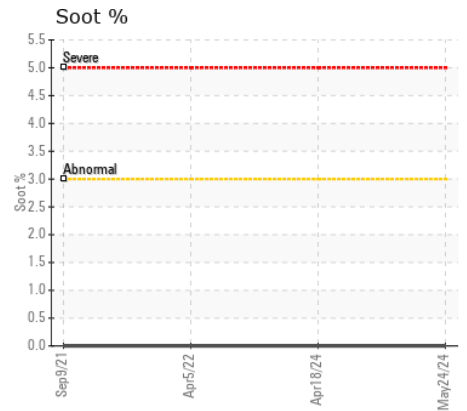
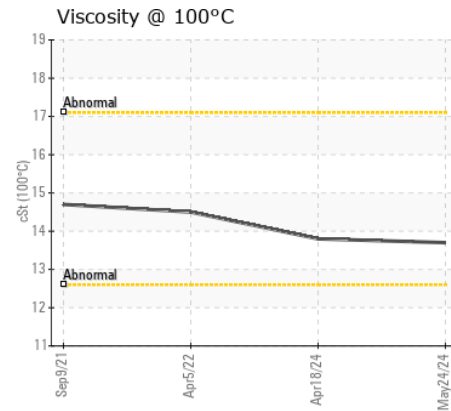
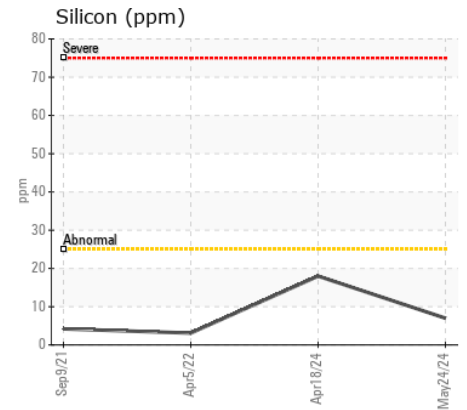
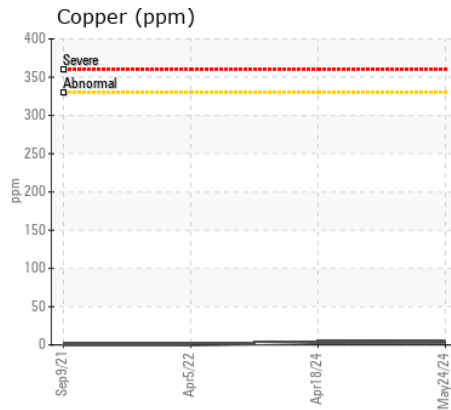
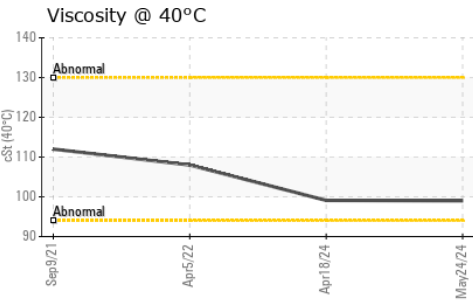
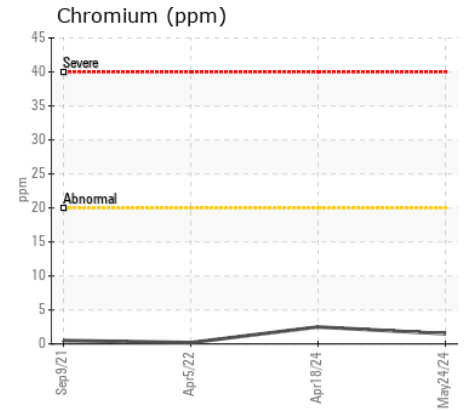
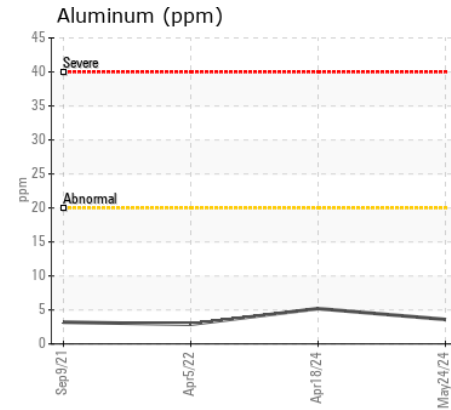
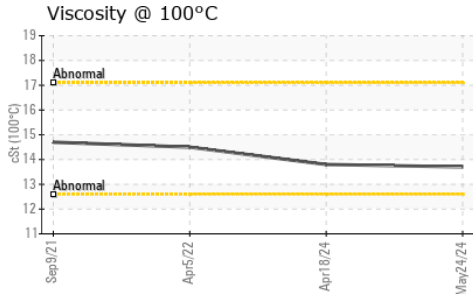
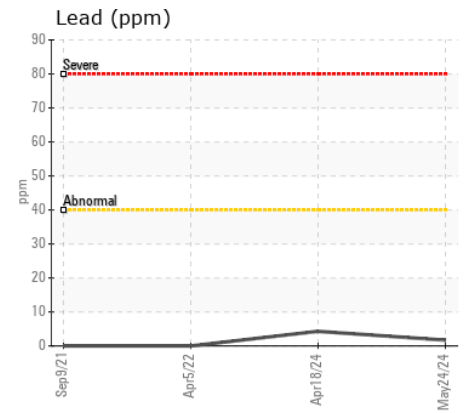
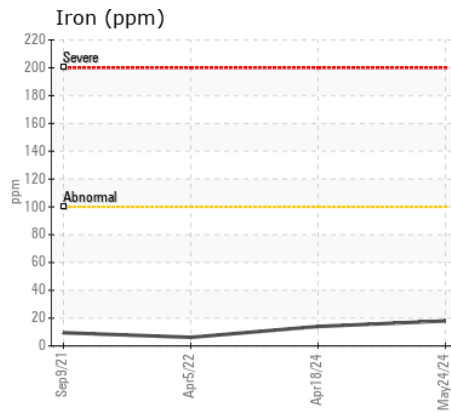
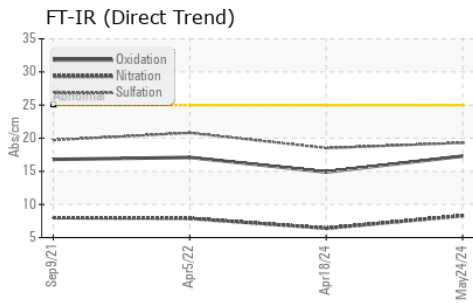
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	7	18	3
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	8.3	6.4	7.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.3	18.5	20.8
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	<1
Boron	ppm	ASTM D5185(m)		2	6	2
Barium	ppm	ASTM D5185(m)		<1	1	0
Molybdenum	ppm	ASTM D5185(m)		60	57	60
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)		997	946	1042
Calcium	ppm	ASTM D5185(m)		1072	1060	1055
Phosphorus	ppm	ASTM D5185(m)		958	960	1037
Zinc	ppm	ASTM D5185(m)		1164	1137	1217
Sulfur	ppm	ASTM D5185(m)		2290	2465	2514
Oxidation	Abs/.1mm	ASTM D7414*	>25	17.3	14.9	17.1
Visc @ 40°C	cSt	ASTM D7279(m)		99.0	99.1	108
Visc @ 100°C	cSt	ASTM D7279(m)		13.7	13.8	14.5
Viscosity Index (VI)	Scale	ASTM D2270*		139	140	137



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0073075 **Received** : 29 May 2024
Lab Number : 02638353 **Tested** : 29 May 2024
Unique Number : 5787515 **Diagnosed** : 29 May 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: KV40, 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.

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