

Machine Id
124-0610
Component
Diesel Engine
Fluid
PETRO CANADA DURON HP 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0084811	PC0071385	PC0065616
Sample Date		Client Info		01 Apr 2024	23 Aug 2023	26 Oct 2022
Machine Age	hrs	Client Info		435054	29446	28532
Oil Age	hrs	Client Info		5000	500	500
Filter Age	hrs	Client Info		5000	500	500
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>120	65	117	97
Chromium	ppm	ASTM D5185(m)	>20	1	4	2
Nickel	ppm	ASTM D5185(m)	>5	<1	<1	1
Titanium	ppm	ASTM D5185(m)	>2	0	0	<1
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<1	1	5
Lead	ppm	ASTM D5185(m)	>40	2	8	▲ 38
Copper	ppm	ASTM D5185(m)	>330	3	11	72
Tin	ppm	ASTM D5185(m)	>15	<1	3	6
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

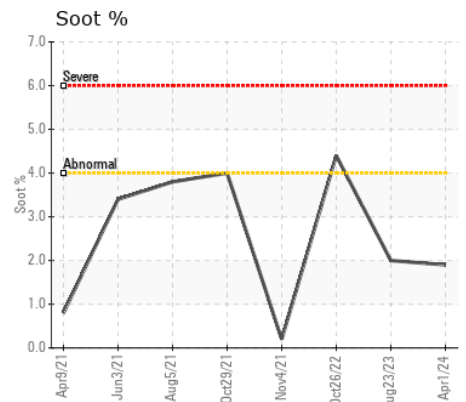
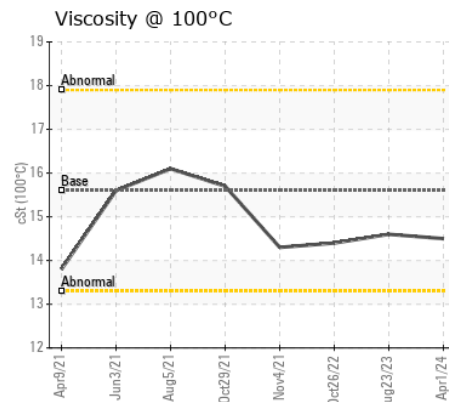
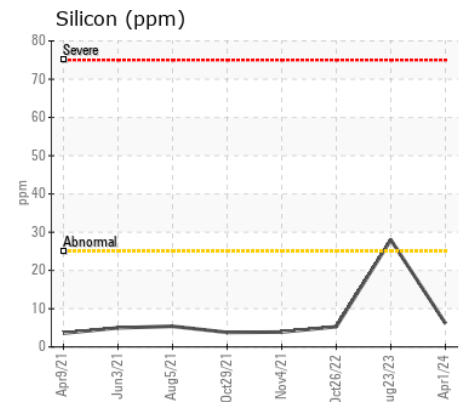
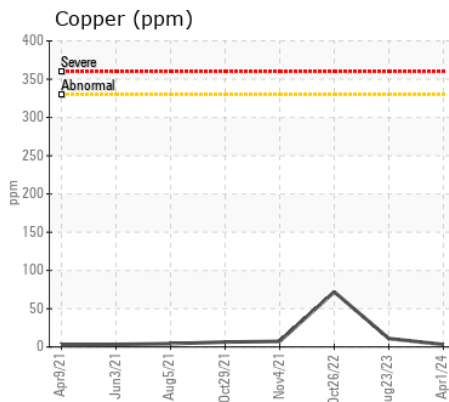
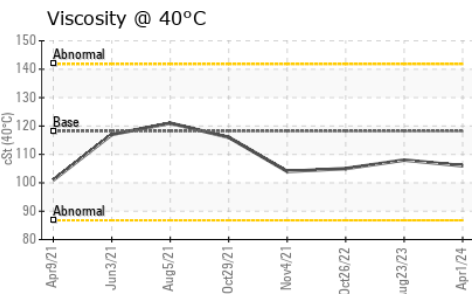
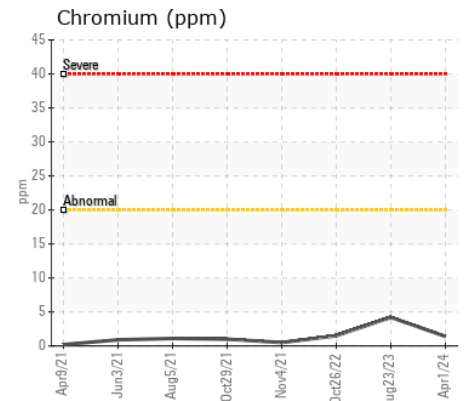
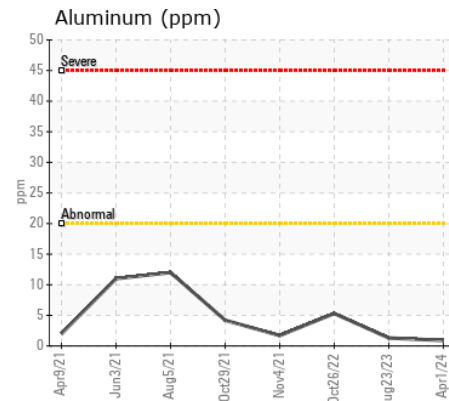
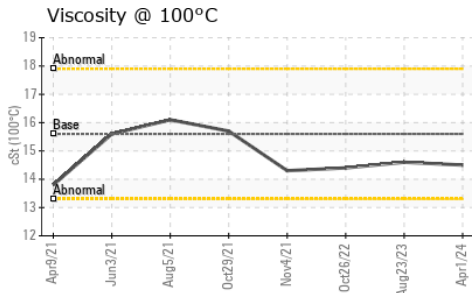
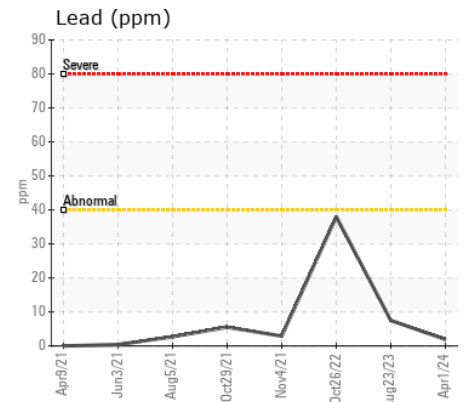
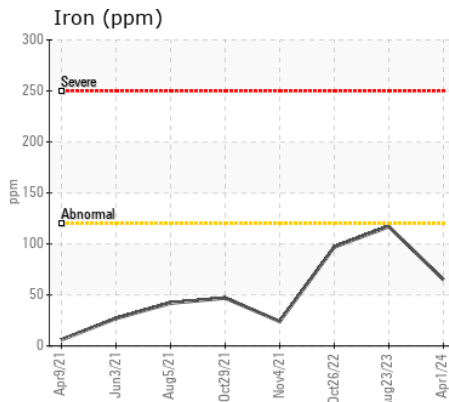
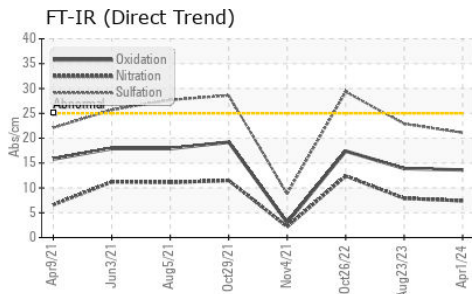
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	6	▲ 28	5
Potassium	ppm	ASTM D5185(m)	>20	<1	1	3
Fuel		WC Method	>3.0	<1.0	1.4	▲ 3.5
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>4	1.9	2	▲ 4.4
Nitration	Abs/cm	ASTM D7624*	>20	7.4	7.9	12.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.1	22.9	29.3
Silt	scalar	Visual*	NONE	VLITE	---	---
Debris	scalar	Visual*	NONE	VLITE	---	---
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)		2	3	2
Boron	ppm	ASTM D5185(m)	0	<1	3	4
Barium	ppm	ASTM D5185(m)	0	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	60	59	59	58
Manganese	ppm	ASTM D5185(m)	0	<1	2	1
Magnesium	ppm	ASTM D5185(m)	1010	962	971	970
Calcium	ppm	ASTM D5185(m)	1070	1039	1022	1103
Phosphorus	ppm	ASTM D5185(m)	1150	959	996	1026
Zinc	ppm	ASTM D5185(m)	1270	1154	1134	1178
Sulfur	ppm	ASTM D5185(m)	2060	2401	2411	2089
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.6	13.9	17.4
Visc @ 40°C	cSt	ASTM D7279(m)	118.2	106	108	105
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	14.5	14.6	14.4
Viscosity Index (VI)	Scale	ASTM D2270*	139	140	139	140



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0084811 **Received** : 19 Apr 2024
Lab Number : 02630163 **Tested** : 19 Apr 2024
Unique Number : 5763295 **Diagnosed** : 19 Apr 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: KV40, VI, Visual)

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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