



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
15-46
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON UHP 5W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0081761	PC0053959	PC0066970
Sample Date		Client Info		10 Apr 2024	07 Mar 2024	03 Aug 2023
Machine Age	kms	Client Info		245841	0	0
Oil Age	kms	Client Info		58341	0	0
Filter Age	kms	Client Info		58341	0	0
Oil Changed		Client Info		N/A	Changed	N/A
Filter Changed		Client Info		N/A	Changed	N/A
Sample Status				NORMAL	SEVERE	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>200	6	13	11
Chromium	ppm	ASTM D5185(m)	>20	<1	2	1
Nickel	ppm	ASTM D5185(m)	>2	0	1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>30	2	3	2
Lead	ppm	ASTM D5185(m)	>30	0	<1	<1
Copper	ppm	ASTM D5185(m)	>30	4	9	13
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

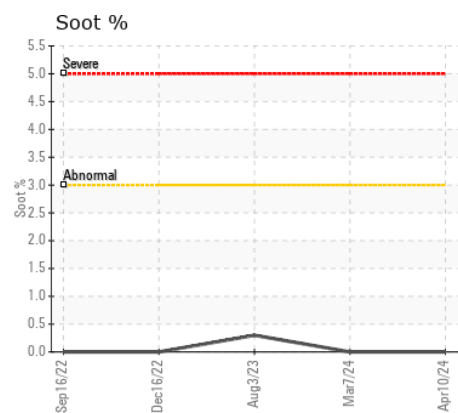
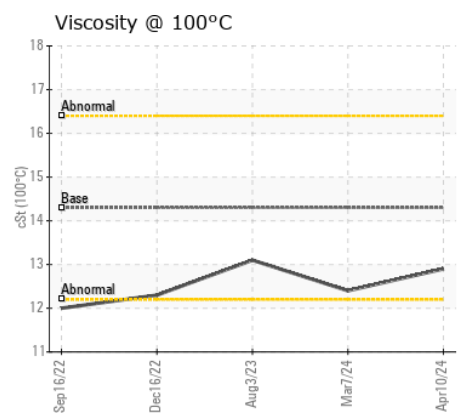
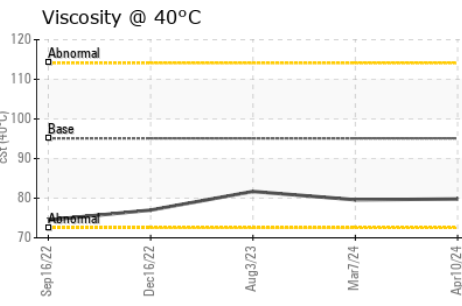
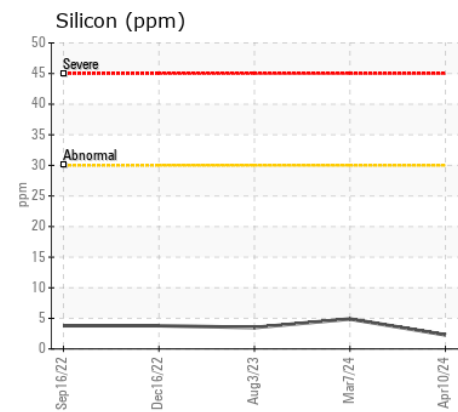
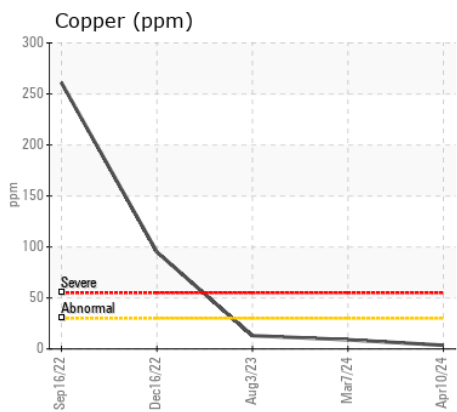
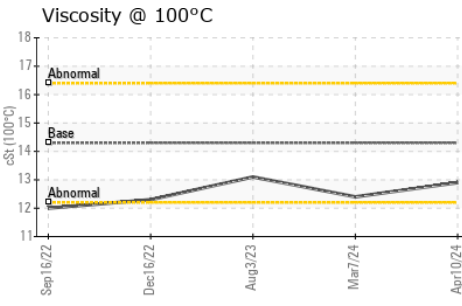
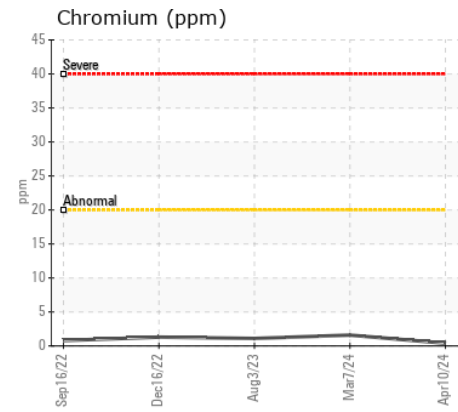
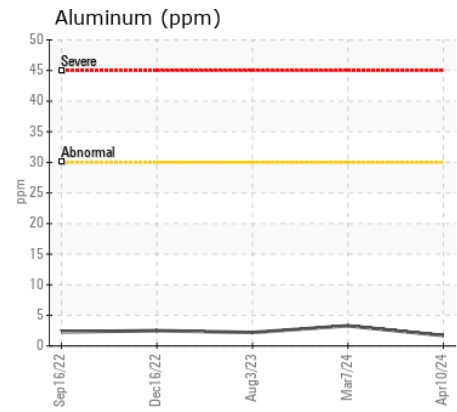
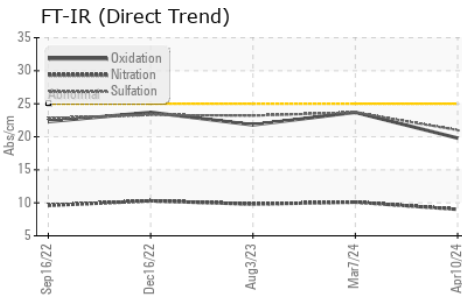
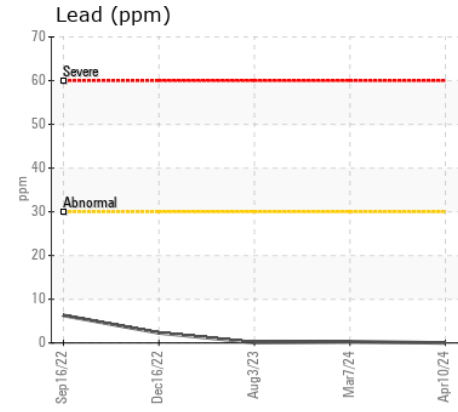
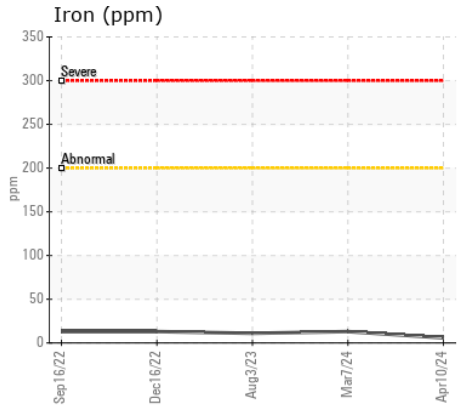
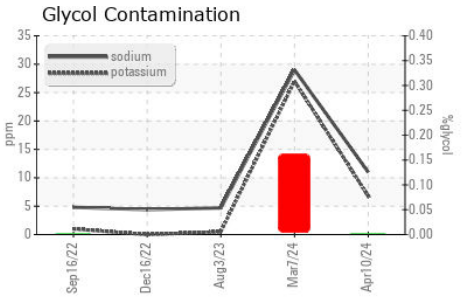
Test for glycol is negative. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>30	2	5	4
Potassium	ppm	ASTM D5185(m)	>20	7	▲ 27	<1
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	ASTM D7922*		0.0	▲ 0.161	NEG
Soot %	%	ASTM D7844*	>3	0	0	0.3
Nitration	Abs/cm	ASTM D7624*	>20	9.0	10.1	9.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.0	23.7	23.2
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)		11	● 29	5
Boron	ppm	ASTM D5185(m)	65	26	23	18
Barium	ppm	ASTM D5185(m)	0	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	65	61	64	64
Manganese	ppm	ASTM D5185(m)	0	0	0	<1
Magnesium	ppm	ASTM D5185(m)	1160	1146	1156	1177
Calcium	ppm	ASTM D5185(m)	820	845	882	872
Phosphorus	ppm	ASTM D5185(m)	1160	1004	1024	1081
Zinc	ppm	ASTM D5185(m)	1260	1192	1240	1226
Sulfur	ppm	ASTM D5185(m)	3000	2621	2635	2458
Oxidation	Abs/.1mm	ASTM D7414*	>25	19.8	23.7	21.8
Visc @ 40°C	cSt	ASTM D7279(m)	95.1	79.8	79.6	81.7
Visc @ 100°C	cSt	ASTM D7279(m)	14.3	12.9	12.4	13.1
Viscosity Index (VI)	Scale	ASTM D2270*	169	162	153	161



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0081761 **Received** : 17 Apr 2024
Lab Number : 02629437 **Tested** : 17 Apr 2024
Unique Number : 5762569 **Diagnosed** : 17 Apr 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: KV40, VI)

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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.