



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
111
 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		PC0078278	PC0077628	PC0071651
Sample Date		Client Info		04 Apr 2024	17 Oct 2023	02 May 2023
Machine Age	kms	Client Info		867783	858713	810561
Oil Age	kms	Client Info		30000	30000	30000
Filter Age	kms	Client Info		30000	30000	30000
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)	>200	14	16	20
Chromium	ppm	ASTM D5185(m)	>6	<1	1	2
Nickel	ppm	ASTM D5185(m)	>3	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	<1
Silver	ppm	ASTM D5185(m)	>2	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>50	5	4	7
Lead	ppm	ASTM D5185(m)	>10	0	0	0
Copper	ppm	ASTM D5185(m)	>50	1	1	2
Tin	ppm	ASTM D5185(m)	>6	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

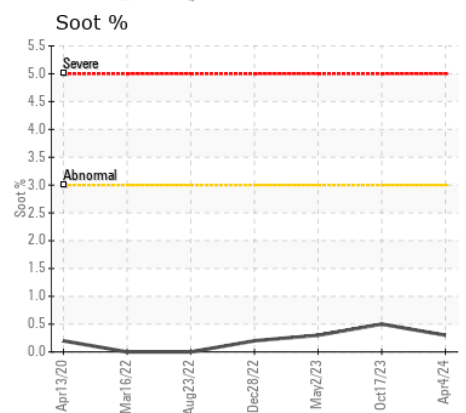
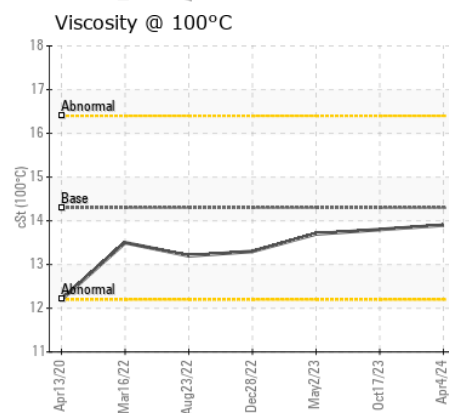
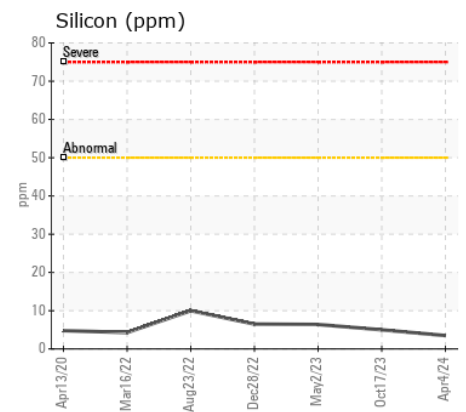
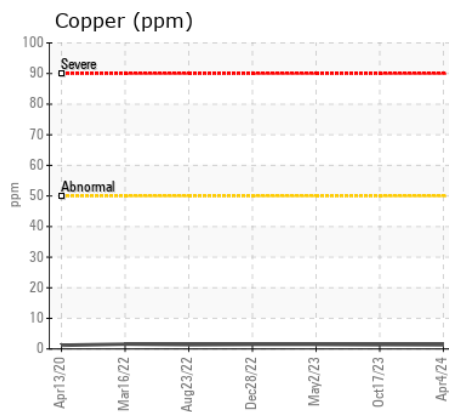
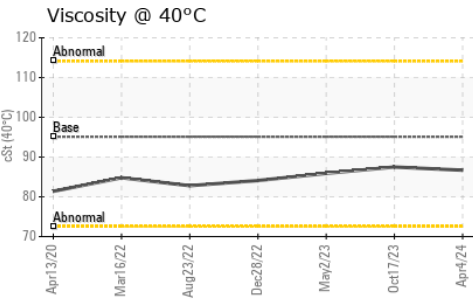
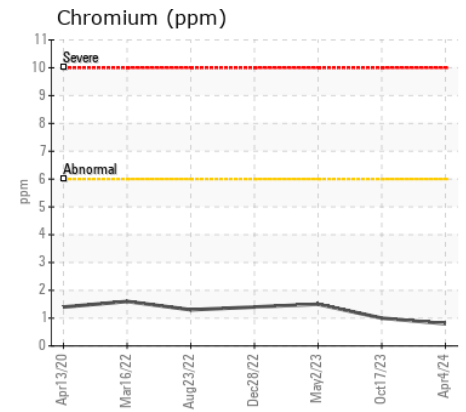
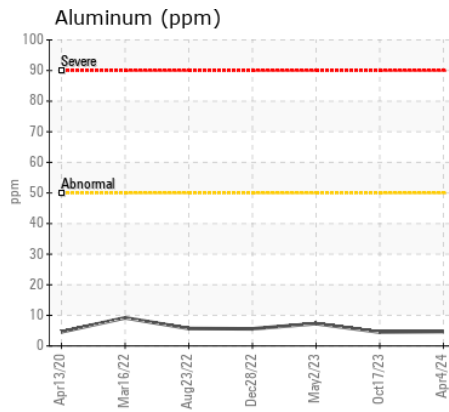
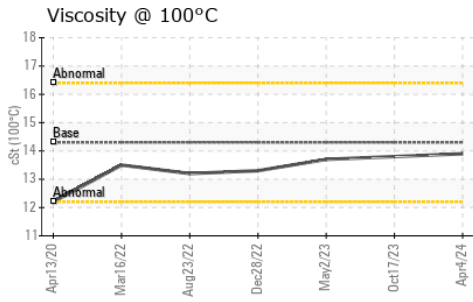
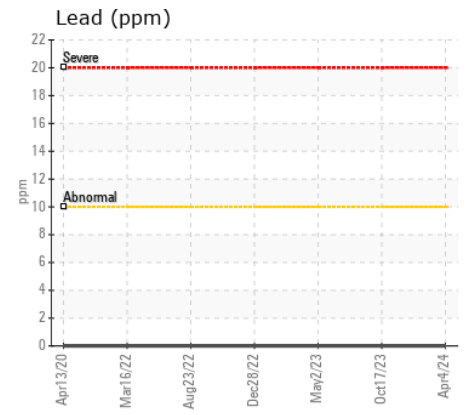
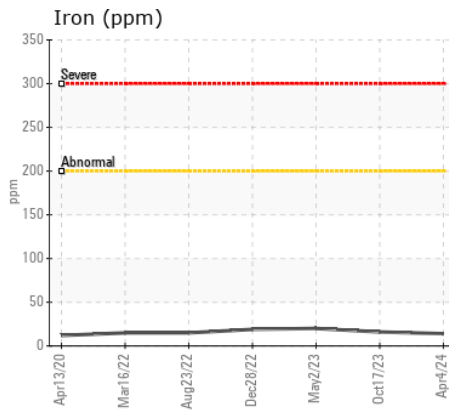
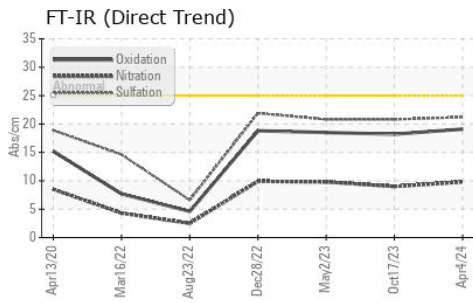
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>50	4	5	6
Potassium	ppm	ASTM D5185(m)	>20	0	<1	<1
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.3	0.5	0.3
Nitration	Abs/cm	ASTM D7624*	>20	9.8	9.0	9.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.2	20.8	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)		4	4	5
Boron	ppm	ASTM D5185(m)	65	26	21	20
Barium	ppm	ASTM D5185(m)	0	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	65	58	60	58
Manganese	ppm	ASTM D5185(m)	0	<1	0	<1
Magnesium	ppm	ASTM D5185(m)	1160	1062	1057	1070
Calcium	ppm	ASTM D5185(m)	820	862	884	899
Phosphorus	ppm	ASTM D5185(m)	1160	968	952	1095
Zinc	ppm	ASTM D5185(m)	1260	1187	1164	1203
Sulfur	ppm	ASTM D5185(m)	3000	2591	2555	2764
Oxidation	Abs/.1mm	ASTM D7414*	>25	19.1	18.2	18.5
Visc @ 40°C	cSt	ASTM D7279(m)	95.1	86.7	87.5	85.9
Visc @ 100°C	cSt	ASTM D7279(m)	14.3	13.9	13.8	13.7
Viscosity Index (VI)	Scale	ASTM D2270*	169	164	161	163



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0078278 **Received** : 11 Apr 2024
Lab Number : 02628099 **Tested** : 11 Apr 2024
Unique Number : 5761231 **Diagnosed** : 11 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.