

Machine Id
1202
Component
Diesel Engine
Fluid
PETRO CANADA DURON HP 15W40 (24 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0078403	PC0081601	PC0076645
Sample Date		Client Info		15 May 2024	19 Feb 2024	22 Nov 2023
Machine Age	kms	Client Info		708997	694147	678739
Oil Age	kms	Client Info		14850	15185	12743
Filter Age	kms	Client Info		14850	15185	12743
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	18	11	25
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	0	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	2	<1	2
Lead	ppm	ASTM D5185(m)	>40	0	0	1
Copper	ppm	ASTM D5185(m)	>330	11	6	13
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

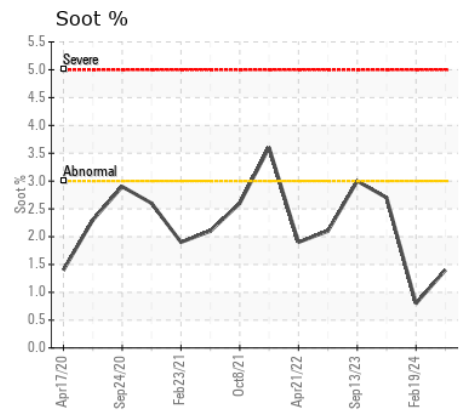
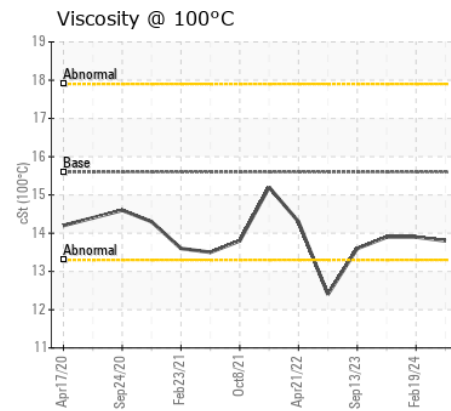
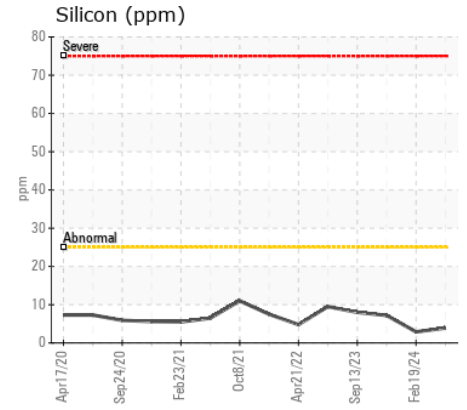
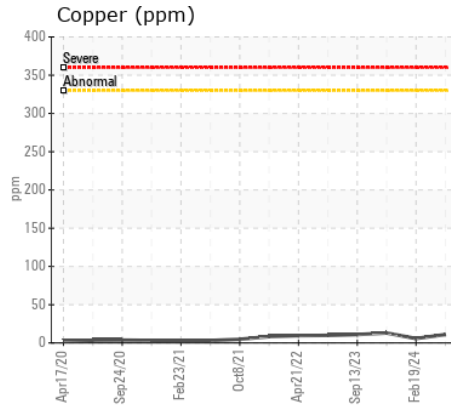
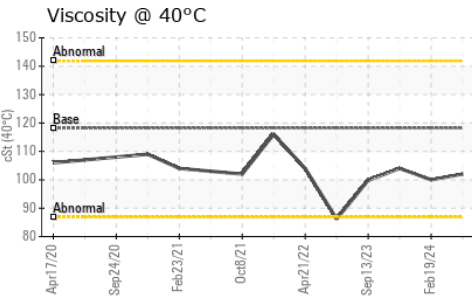
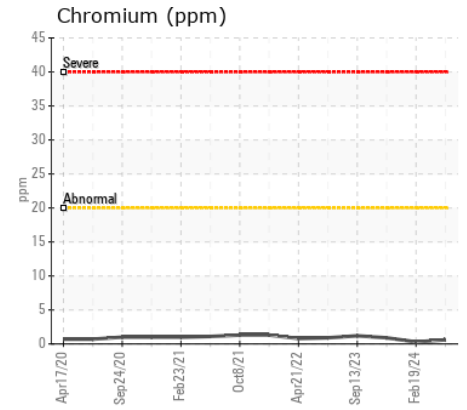
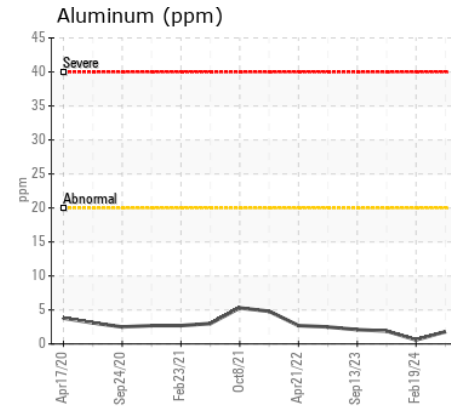
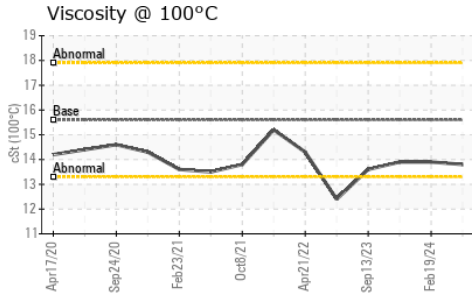
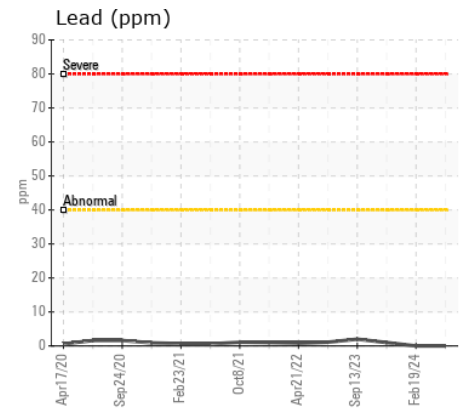
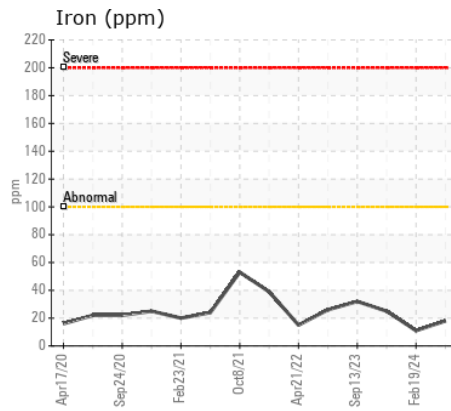
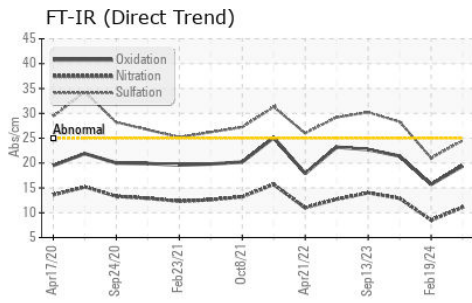
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	4	3	7
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	1.4	0.8	2.7
Nitration	Abs/cm	ASTM D7624*	>20	11.1	8.5	12.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	24.5	21.0	28.3
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)		21	20	53
Boron	ppm	ASTM D5185(m)	0	2	4	4
Barium	ppm	ASTM D5185(m)	0	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	60	68	63	67
Manganese	ppm	ASTM D5185(m)	0	<1	0	0
Magnesium	ppm	ASTM D5185(m)	1010	1072	1018	1042
Calcium	ppm	ASTM D5185(m)	1070	1227	1206	1235
Phosphorus	ppm	ASTM D5185(m)	1150	1137	1031	1080
Zinc	ppm	ASTM D5185(m)	1270	1331	1252	1334
Sulfur	ppm	ASTM D5185(m)	2060	2467	2587	2407
Oxidation	Abs/.1mm	ASTM D7414*	>25	19.4	15.7	21.4
Visc @ 40°C	cSt	ASTM D7279(m)	118.2	102	100	104
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	13.8	13.9	13.9
Viscosity Index (VI)	Scale	ASTM D2270*	139	136	140	134



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0078403 **Received** : 05 Jun 2024
Lab Number : 02639819 **Tested** : 05 Jun 2024
Unique Number : 5788981 **Diagnosed** : 05 Jun 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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