

Machine Id
1831
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		PC0081946	PC0082736	PC0076687
Sample Date		Client Info		07 May 2024	02 Feb 2024	22 Nov 2023
Machine Age	kms	Client Info		176959	166163	153832
Oil Age	kms	Client Info		10673	12492	11403
Filter Age	kms	Client Info		10673	12492	11403
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	30	33	49
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	1
Nickel	ppm	ASTM D5185(m)	>4	0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	11	13	▲ 27
Lead	ppm	ASTM D5185(m)	>40	0	0	<1
Copper	ppm	ASTM D5185(m)	>330	2	2	2
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

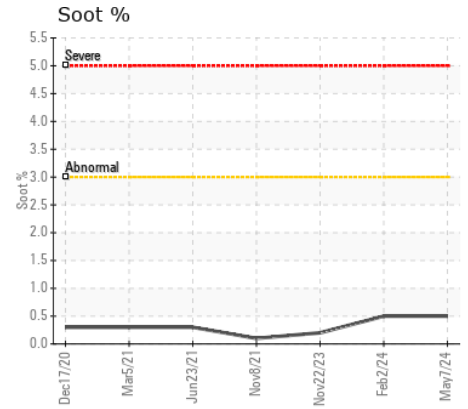
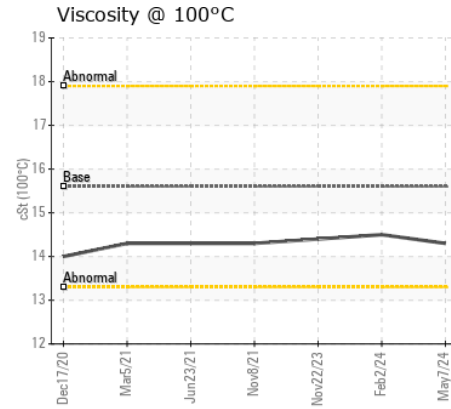
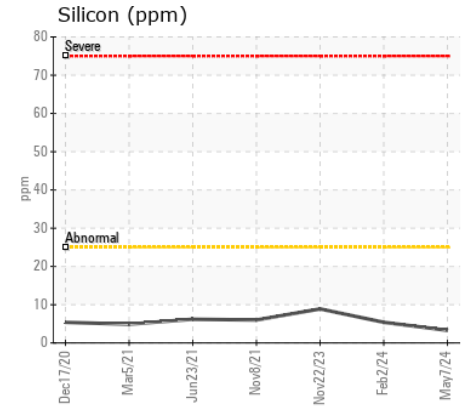
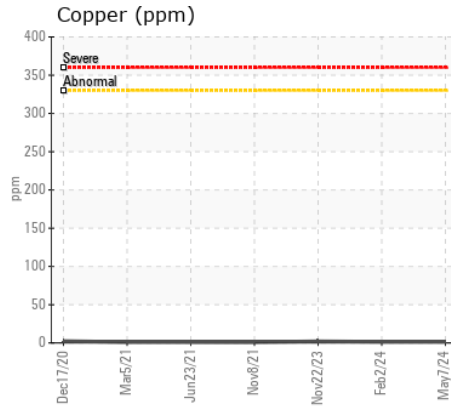
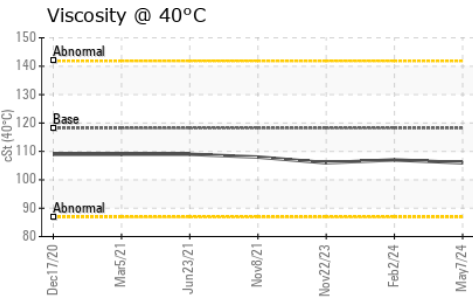
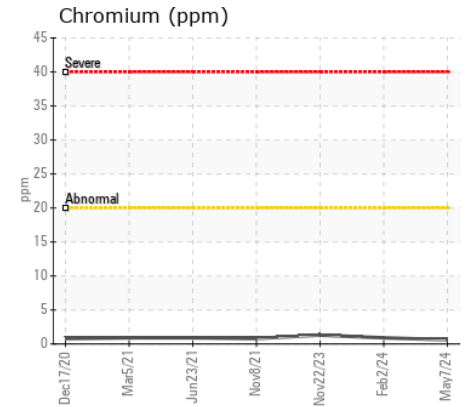
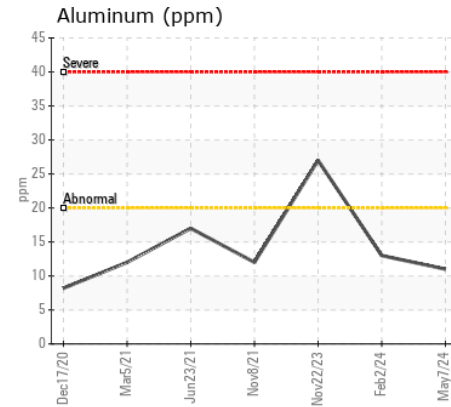
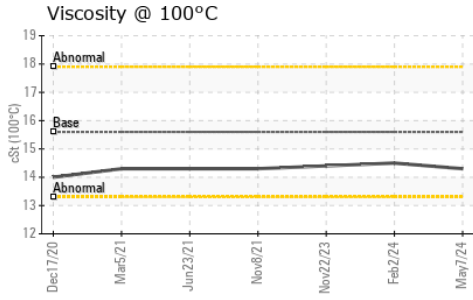
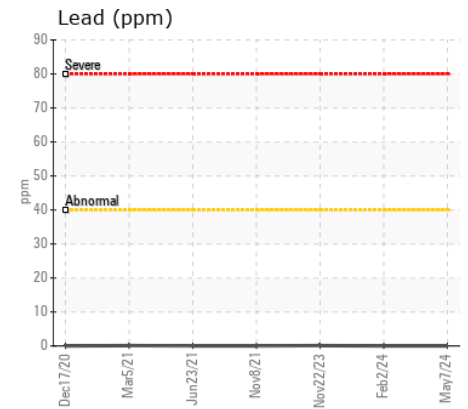
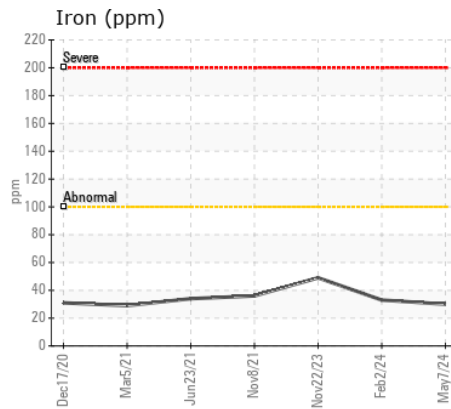
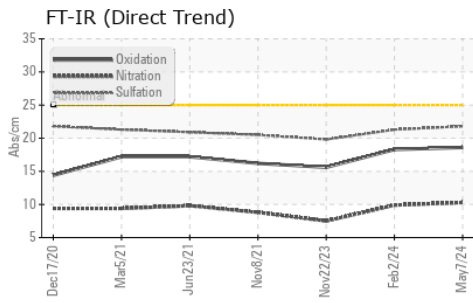
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	3	5	9
Potassium	ppm	ASTM D5185(m)	>20	<1	2	<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	0.5	0.5	0.2
Nitration	Abs/cm	ASTM D7624*	>20	10.3	9.9	7.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.8	21.3	19.8
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)		2	2	4
Boron	ppm	ASTM D5185(m)	0	1	3	5
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	61	61	58
Manganese	ppm	ASTM D5185(m)	0	<1	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	1004	990	937
Calcium	ppm	ASTM D5185(m)	1070	1099	1103	1083
Phosphorus	ppm	ASTM D5185(m)	1150	1028	1036	1020
Zinc	ppm	ASTM D5185(m)	1270	1224	1221	1203
Sulfur	ppm	ASTM D5185(m)	2060	2351	2582	2510
Oxidation	Abs/.1mm	ASTM D7414*	>25	18.6	18.3	15.6
Visc @ 40°C	cSt	ASTM D7279(m)	118.2	106	107	106
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	14.3	14.5	14.4
Viscosity Index (VI)	Scale	ASTM D2270*	139	137	139	139



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0081946 **Received** : 29 May 2024
Lab Number : 02638331 **Tested** : 29 May 2024
Unique Number : 5787493 **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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