

Machine Id
1833
Component
Rear 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		PC0082755	PC0080280	PC0031590
Sample Date		Client Info		11 Apr 2024	18 Dec 2023	15 May 2023
Machine Age	kms	Client Info		211389	199909	179144
Oil Age	kms	Client Info		11195	9850	13188
Filter Age	kms	Client Info		11195	9850	13188
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)	>130	30	47	38
Chromium	ppm	ASTM D5185(m)	>10	<1	1	1
Nickel	ppm	ASTM D5185(m)	>4	<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)	>20	11	15	20
Lead	ppm	ASTM D5185(m)	>20	0	<1	0
Copper	ppm	ASTM D5185(m)	>125	<1	2	1
Tin	ppm	ASTM D5185(m)	>4	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

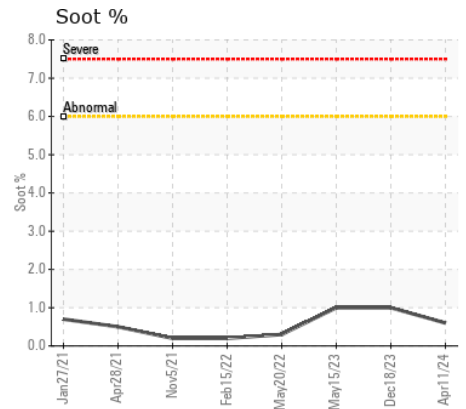
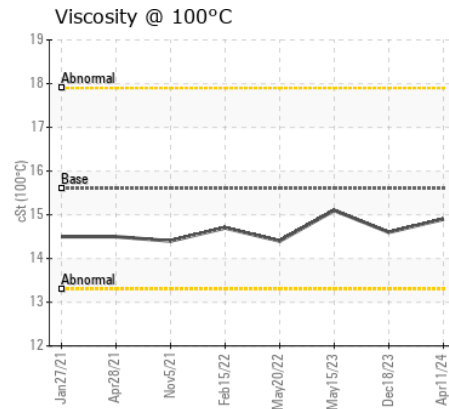
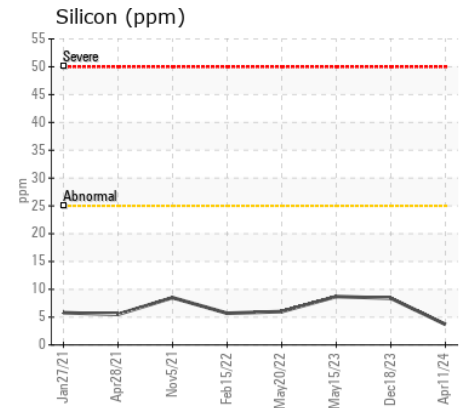
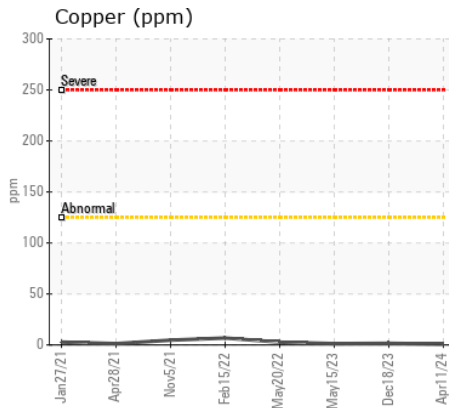
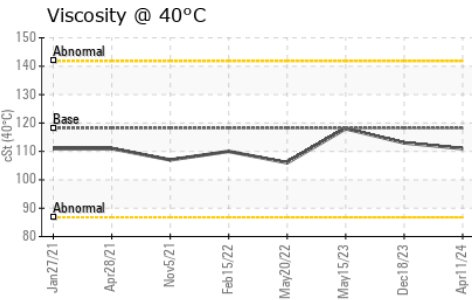
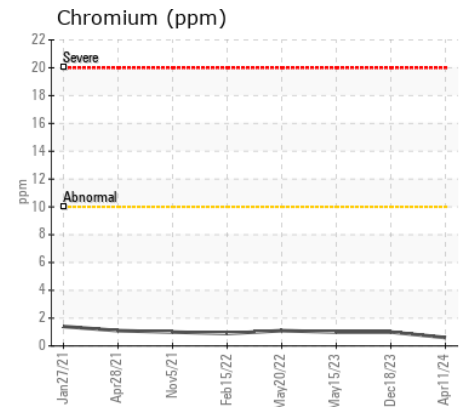
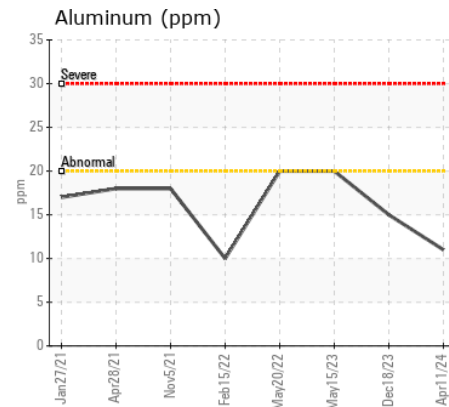
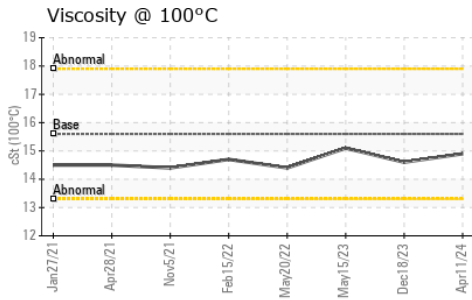
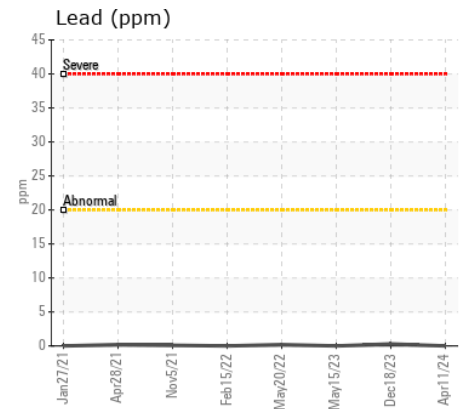
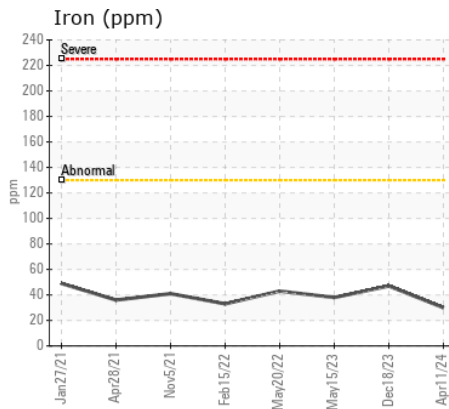
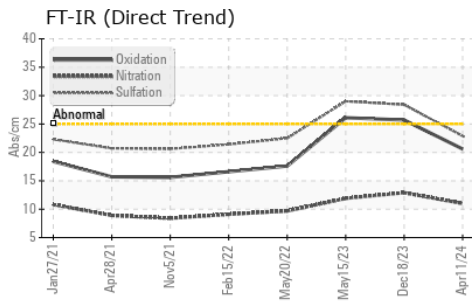
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	4	8	9
Potassium	ppm	ASTM D5185(m)	>20	1	3	8
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	0.0
Soot %	%	ASTM D7844*	>6	0.6	1	1
Nitration	Abs/cm	ASTM D7624*	>20	11.0	12.9	11.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.9	28.4	29.0
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
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)		3	4	7
Boron	ppm	ASTM D5185(m)	0	3	14	75
Barium	ppm	ASTM D5185(m)	0	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	60	63	54	3
Manganese	ppm	ASTM D5185(m)	0	<1	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	1021	839	31
Calcium	ppm	ASTM D5185(m)	1070	1165	1485	2301
Phosphorus	ppm	ASTM D5185(m)	1150	1024	1062	1016
Zinc	ppm	ASTM D5185(m)	1270	1263	1320	1151
Sulfur	ppm	ASTM D5185(m)	2060	2357	2542	2804
Oxidation	Abs/.1mm	ASTM D7414*	>25	20.6	25.7	26.1
Visc @ 40°C	cSt	ASTM D7279(m)	118.2	111	113	118
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	14.9	14.6	15.1
Viscosity Index (VI)	Scale	ASTM D2270*	139	139	132	132



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0082755 **Received** : 03 May 2024
Lab Number : 02633053 **Tested** : 03 May 2024
Unique Number : 5774206 **Diagnosed** : 03 May 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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