



POWER SYSTEMS
SYSTÈMES DE PUISSANCE

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

HALIFAX WATER [6100266861]

Machine Id

PERKINS U844085M

Component

Diesel Engine

Fluid

PETRO CANADA DURON SAE 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WA0020837	WA0018098	---
Sample Date		Client Info		31 May 2024	14 Oct 2022	---
Machine Age	hrs	Client Info		466	444	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>250	2	2	---
Chromium	ppm	ASTM D5185(m)	>10	0	0	---
Nickel	ppm	ASTM D5185(m)	>5	0	<1	---
Titanium	ppm	ASTM D5185(m)		0	<1	---
Silver	ppm	ASTM D5185(m)	>3	0	0	---
Aluminum	ppm	ASTM D5185(m)	>35	<1	<1	---
Lead	ppm	ASTM D5185(m)	>100	0	0	---
Copper	ppm	ASTM D5185(m)	>60	2	2	---
Tin	ppm	ASTM D5185(m)	>5	0	0	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

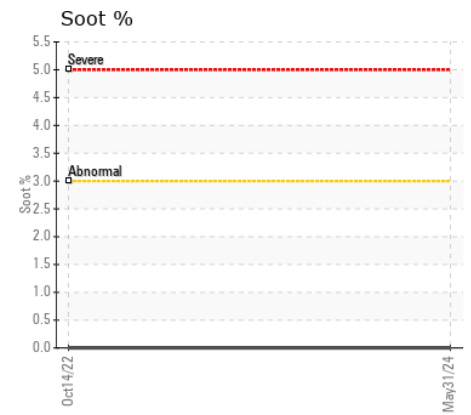
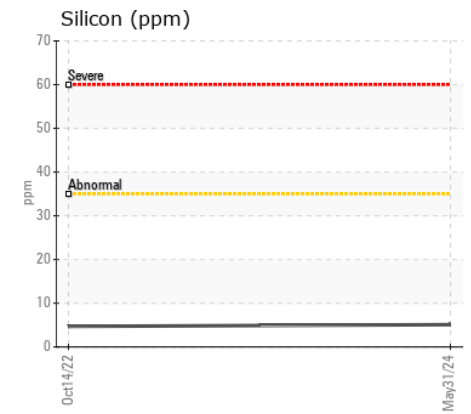
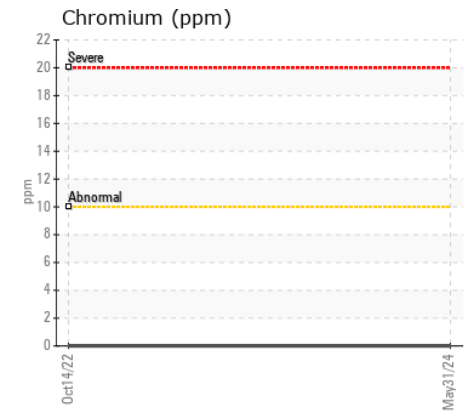
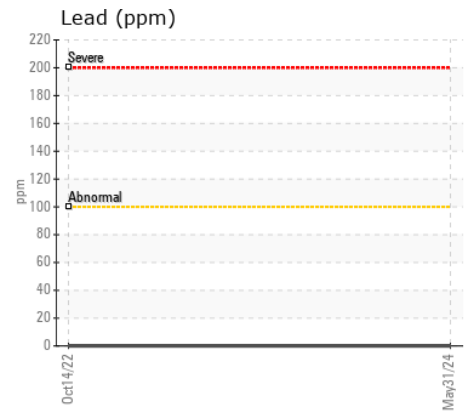
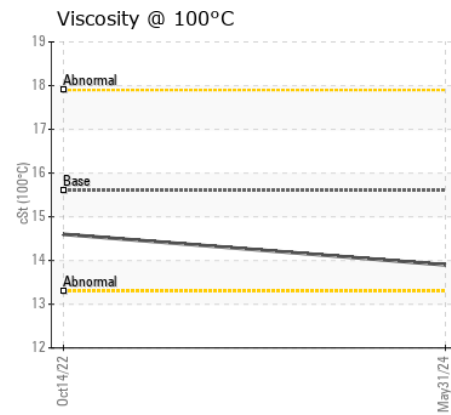
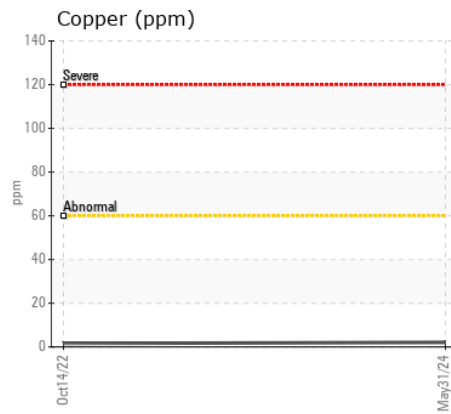
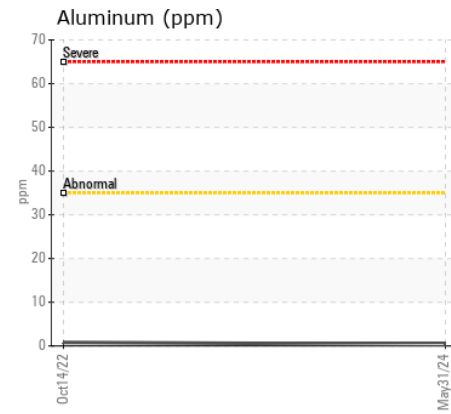
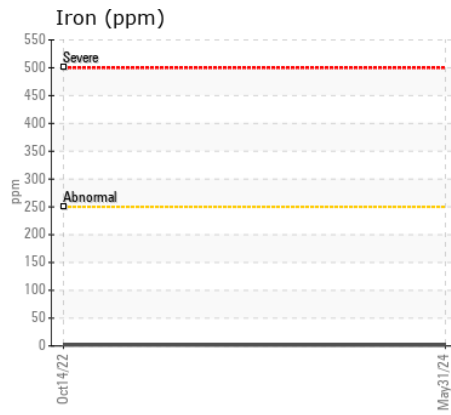
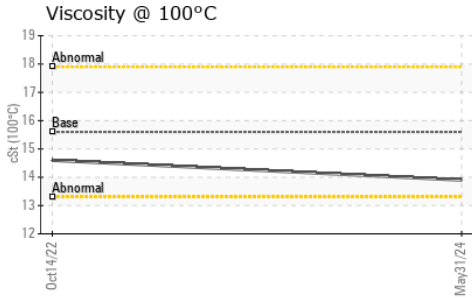
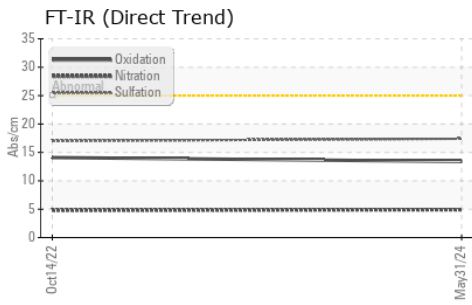
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>35	5	5	---
Potassium	ppm	ASTM D5185(m)	>20	0	<1	---
Fuel		WC Method	>5	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	ASTM D7844*	>3	0	0	---
Nitration	Abs/cm	ASTM D7624*	>20	4.9	4.8	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.4	17.0	---
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	---
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	---

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		1	1	---
Boron	ppm	ASTM D5185(m)	1	1	2	---
Barium	ppm	ASTM D5185(m)	1	0	0	---
Molybdenum	ppm	ASTM D5185(m)	60	56	58	---
Manganese	ppm	ASTM D5185(m)	1	0	<1	---
Magnesium	ppm	ASTM D5185(m)	1010	932	967	---
Calcium	ppm	ASTM D5185(m)	1070	1021	1043	---
Phosphorus	ppm	ASTM D5185(m)	1150	963	1111	---
Zinc	ppm	ASTM D5185(m)	1270	1129	1177	---
Sulfur	ppm	ASTM D5185(m)	2060	2521	2734	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.4	14.1	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	13.9	14.6	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WA0020837 **Received** : 06 Jun 2024
Lab Number : 02640109 **Tested** : 06 Jun 2024
Unique Number : 5789271 **Diagnosed** : 06 Jun 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: 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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