

Machine Id
WL0230
Component
Diesel Engine
Fluid
PETRO CANADA DURON UHP 5W40 (21 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0078316	PC0056397	---
Sample Date		Client Info		21 Feb 2024	16 Nov 2021	---
Machine Age	hrs	Client Info		5309	3181	---
Oil Age	hrs	Client Info		0	600	---
Filter Age	hrs	Client Info		0	600	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	13	6	---
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	---
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)	>3	0	0	---
Aluminum	ppm	ASTM D5185(m)	>20	1	1	---
Lead	ppm	ASTM D5185(m)	>40	0	0	---
Copper	ppm	ASTM D5185(m)	>330	2	<1	---
Tin	ppm	ASTM D5185(m)	>15	0	<1	---
Vanadium	ppm	ASTM D5185(m)		0	0	---

CONTAMINATION

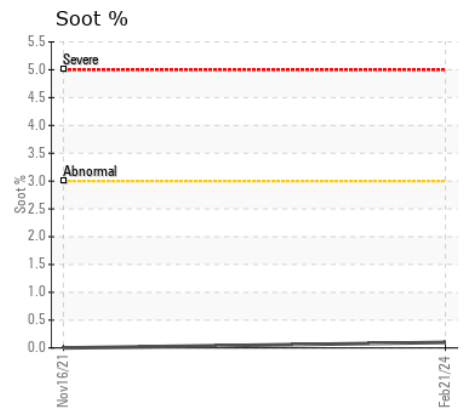
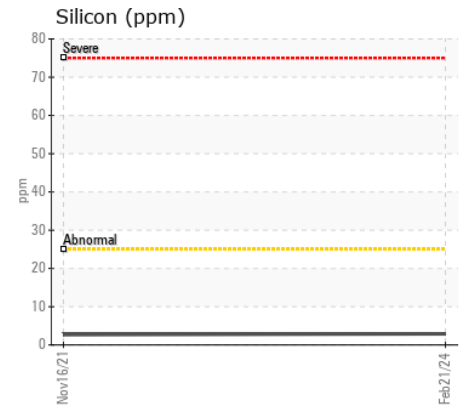
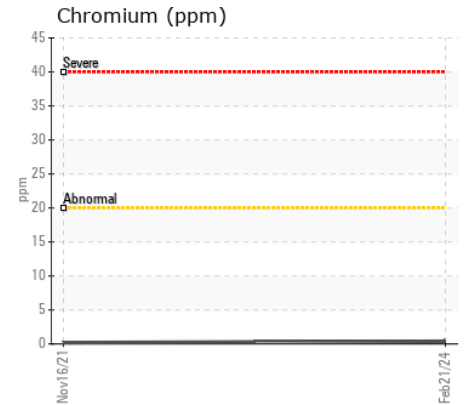
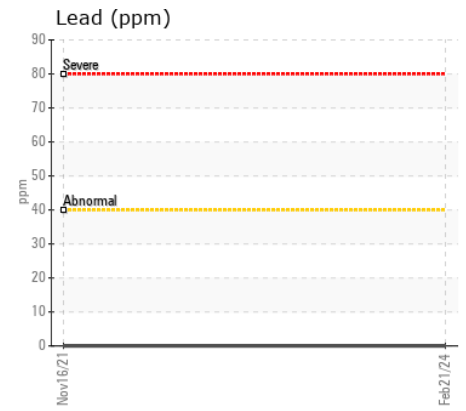
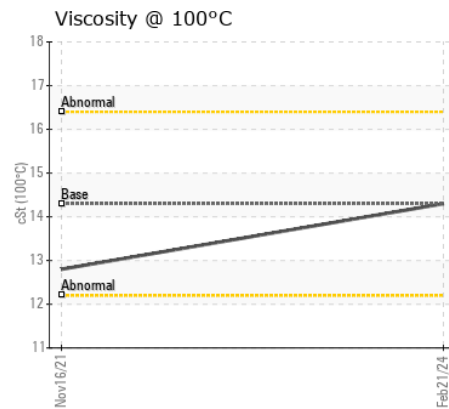
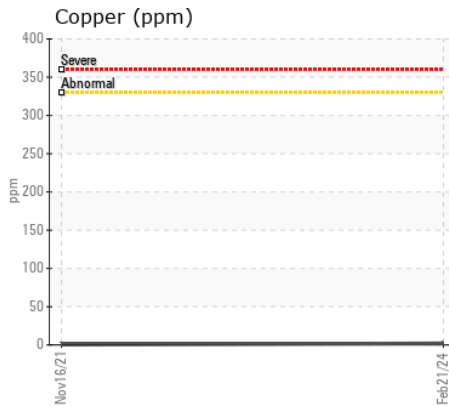
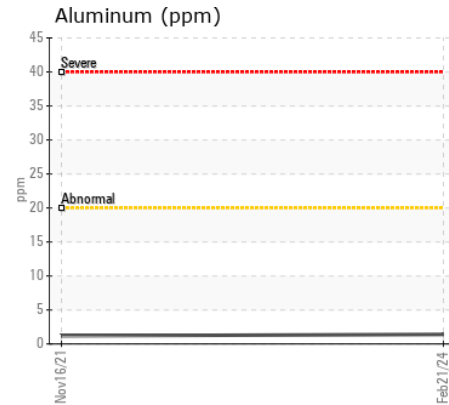
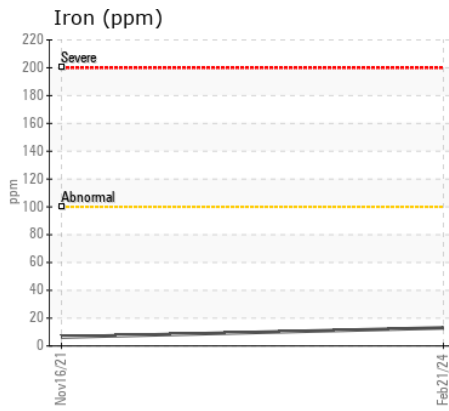
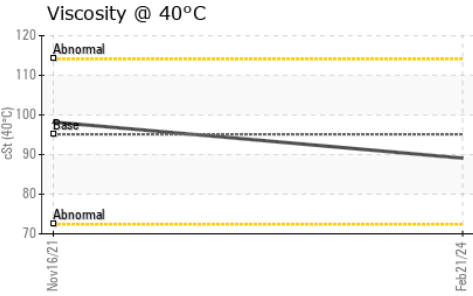
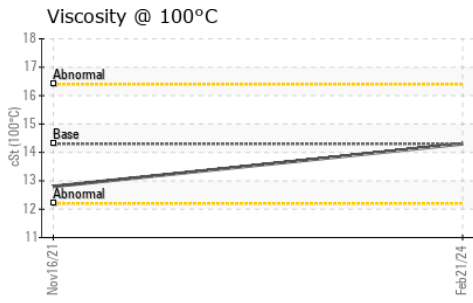
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	3	3	---
Potassium	ppm	ASTM D5185(m)	>20	<1	0	---
Fuel		WC Method	>5	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	ASTM D7844*	>3	0.1	0	---
Nitration	Abs/cm	ASTM D7624*	>20	9.5	5.6	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.1	20.5	---
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)		4	1	---
Boron	ppm	ASTM D5185(m)	65	40	107	---
Barium	ppm	ASTM D5185(m)	0	0	0	---
Molybdenum	ppm	ASTM D5185(m)	65	54	63	---
Manganese	ppm	ASTM D5185(m)	0	0	<1	---
Magnesium	ppm	ASTM D5185(m)	1160	1035	411	---
Calcium	ppm	ASTM D5185(m)	820	791	1757	---
Phosphorus	ppm	ASTM D5185(m)	1160	972	1087	---
Zinc	ppm	ASTM D5185(m)	1260	1112	1193	---
Sulfur	ppm	ASTM D5185(m)	3000	2797	2745	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	20.5	15.1	---
Visc @ 40°C	cSt	ASTM D7279(m)	95.1	89.1	98.2	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.3	14.3	12.8	---
Viscosity Index (VI)	Scale	ASTM D2270*	169	166	126	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0078316 **Received** : 01 Mar 2024
Lab Number : 02619157 **Tested** : 01 Mar 2024
Unique Number : 5736267 **Diagnosed** : 01 Mar 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: KV40, VI)

Green Infrastructure and Partners Inc (GPI) - 286 - Shoring & Foundations
 151 Ram Forest Rd,
 Stouffville, ON
 CA L4A 2G8
 Contact: Bill Acton
 bacton@gipi.com

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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F: