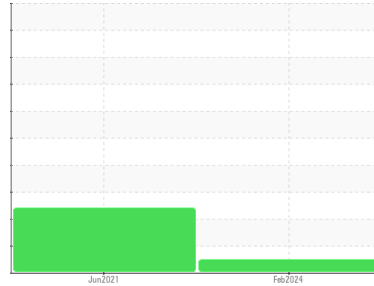


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id
PD816
Component
Diesel Engine
Fluid
PETRO CANADA DURON UHP 5W40 (30 LTR)

DIAGNOSIS

Recommendation
Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

Contamination
There is no indication of any contamination in the oil.

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

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		PC0082669	PC0047946	---
Sample Date	Client Info		08 Feb 2024	13 Jun 2021	---
Machine Age	hrs	Client Info	8101	8023	---
Oil Age	hrs	Client Info	0	0	---
Oil Changed	Client Info		Changed	Changed	---
Sample Status			NORMAL	ABNORMAL	---

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<1.0	<1.0	---
Water	WC Method	>0.2	NEG	NEG	---
Glycol	WC Method		NEG	NEG	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	3	89
Chromium	ppm	ASTM D5185(m)	>20	0	4
Nickel	ppm	ASTM D5185(m)	>4	<1	▲ 5
Titanium	ppm	ASTM D5185(m)		0	<1
Silver	ppm	ASTM D5185(m)	>3	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	2	13
Lead	ppm	ASTM D5185(m)	>40	<1	2
Copper	ppm	ASTM D5185(m)	>330	<1	9
Tin	ppm	ASTM D5185(m)	>15	0	1
Antimony	ppm	ASTM D5185(m)		0	0
Vanadium	ppm	ASTM D5185(m)		0	<1
Beryllium	ppm	ASTM D5185(m)		0	0
Cadmium	ppm	ASTM D5185(m)		0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	65	56	38
Barium	ppm	ASTM D5185(m)	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	65	54	57
Manganese	ppm	ASTM D5185(m)	0	0	1
Magnesium	ppm	ASTM D5185(m)	1160	1065	1070
Calcium	ppm	ASTM D5185(m)	820	779	889
Phosphorus	ppm	ASTM D5185(m)	1160	989	979
Zinc	ppm	ASTM D5185(m)	1260	1136	1210
Sulfur	ppm	ASTM D5185(m)	3000	2919	2863
Lithium	ppm	ASTM D5185(m)		<1	<1

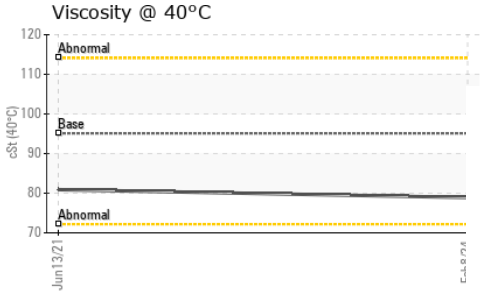
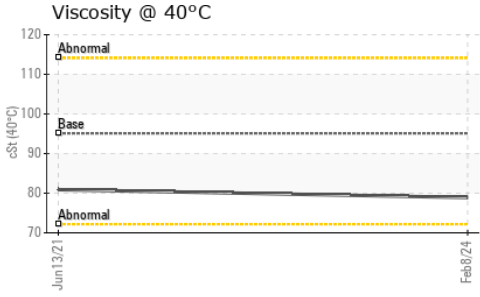
CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	4	▲ 41
Sodium	ppm	ASTM D5185(m)		3	6
Potassium	ppm	ASTM D5185(m)	>20	<1	4

INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0	0
Nitration	Abs/cm	ASTM D7624*	>20	7.4	9.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.8	21.0

OIL ANALYSIS REPORT

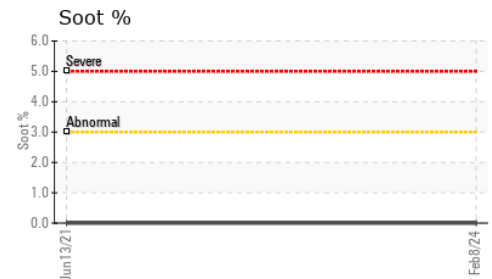
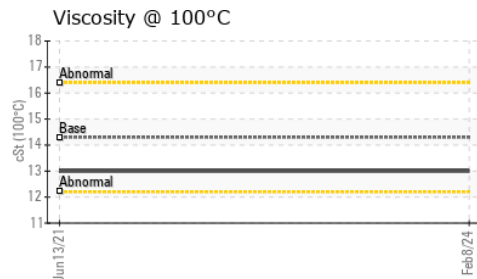
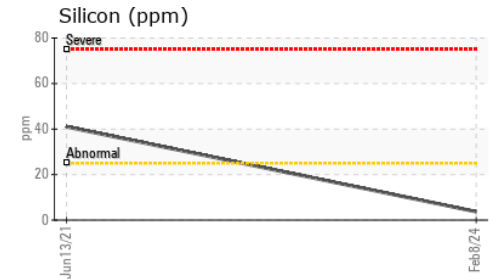
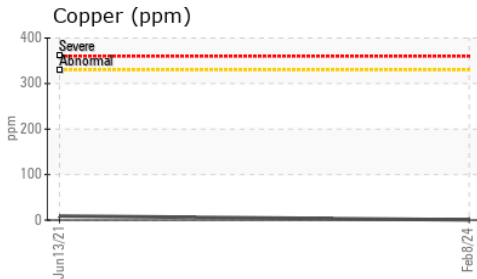
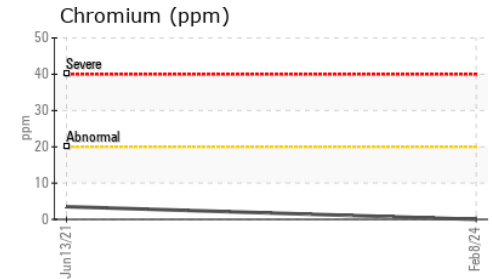
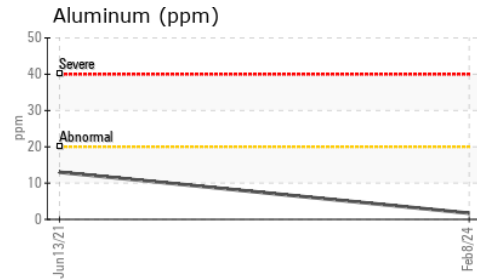
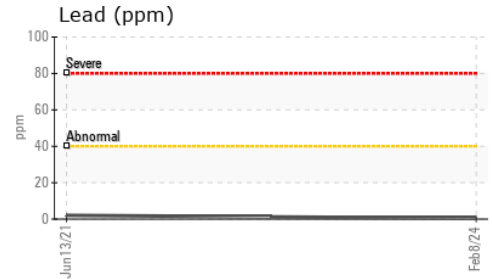
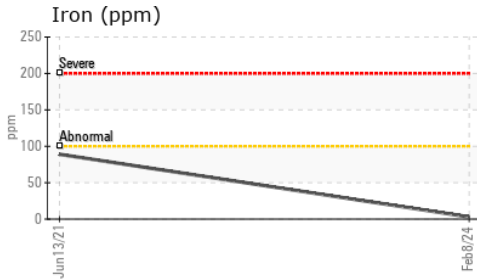


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	17.2	19.0	---

VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	---
Free Water	scalar	Visual*		NEG	NEG	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	95.1	78.9	80.9	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.3	13.0	13.0	---
Viscosity Index (VI)	Scale	ASTM D2270*	169	166	161	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0082669 **Received** : 14 Feb 2024
Lab Number : **02615548** **Tested** : 14 Feb 2024
Unique Number : 5724643 **Diagnosed** : 14 Feb 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: