



WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>



Machine Id  
**OR4702**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON UHP 5W40 (--- LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PC0082057</b>	---	---
Sample Date		Client Info		<b>24 Feb 2024</b>	---	---
Machine Age	hrs	Client Info		<b>5765</b>	---	---
Oil Age	hrs	Client Info		<b>0</b>	---	---
Filter Age	hrs	Client Info		<b>0</b>	---	---
Oil Changed		Client Info		<b>Changed</b>	---	---
Filter Changed		Client Info		<b>Changed</b>	---	---
Sample Status				<b>NORMAL</b>	---	---

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>51	<b>16</b>	---	---
Chromium	ppm	ASTM D5185(m)	>11	<b>&lt;1</b>	---	---
Nickel	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	---	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185(m)	>31	<b>2</b>	---	---
Lead	ppm	ASTM D5185(m)	>26	<b>0</b>	---	---
Copper	ppm	ASTM D5185(m)	>26	<b>&lt;1</b>	---	---
Tin	ppm	ASTM D5185(m)	>4	<b>0</b>	---	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	---	---

**CONTAMINATION**

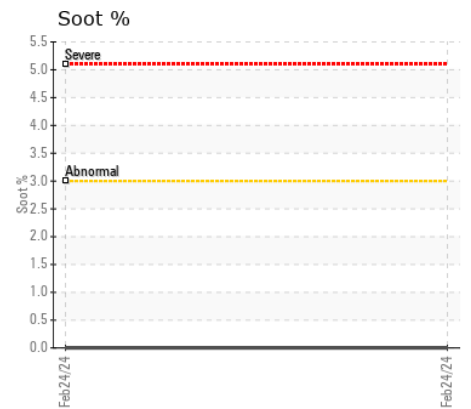
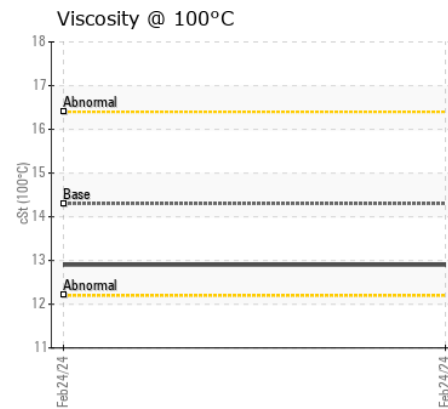
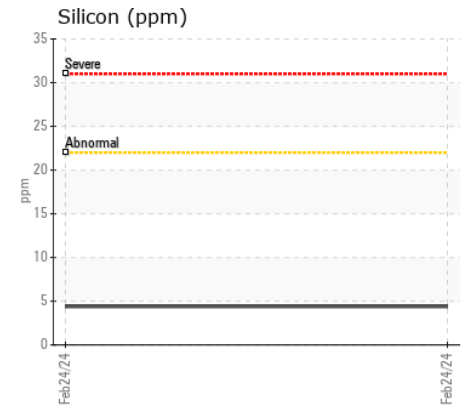
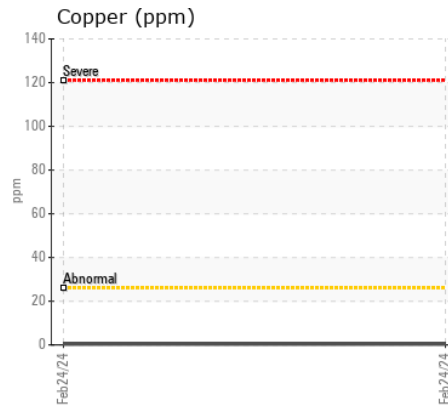
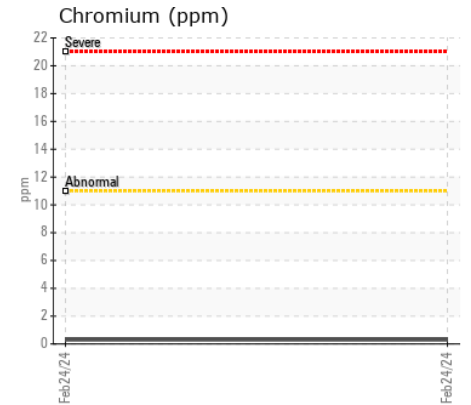
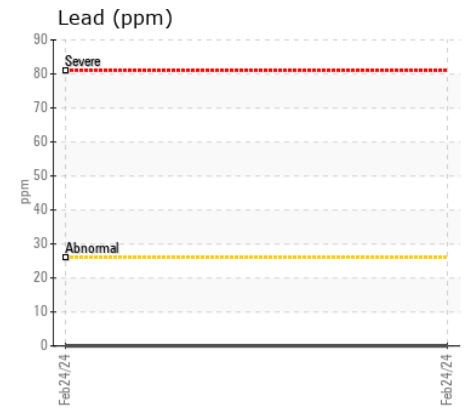
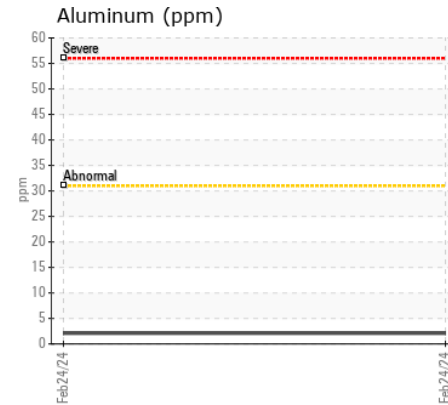
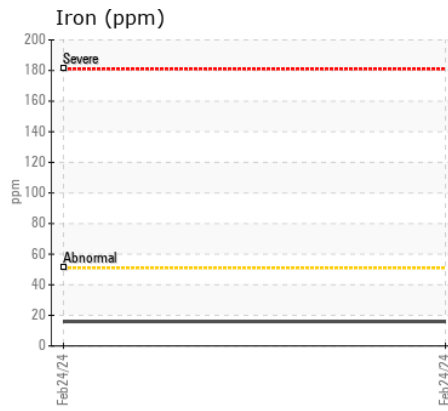
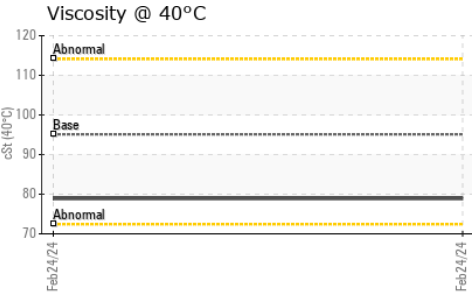
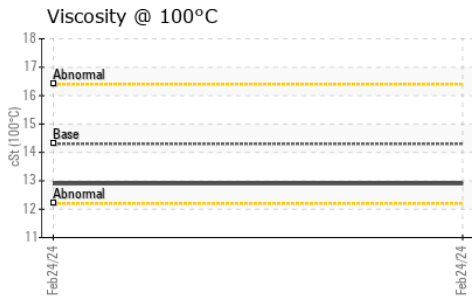
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>22	<b>4</b>	---	---
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	---	---
Fuel		WC Method	>2.1	<b>&lt;1.0</b>	---	---
Water		WC Method	>0.21	<b>NEG</b>	---	---
Glycol		WC Method		<b>NEG</b>	---	---
Soot %	%	ASTM D7844*	>3	<b>0</b>	---	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>8.1</b>	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>19.5</b>	---	---
Emulsified Water	scalar	Visual*	>0.21	<b>NEG</b>	---	---

**FLUID CONDITION**

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

Sodium	ppm	ASTM D5185(m)	>31	<b>4</b>	---	---
Boron	ppm	ASTM D5185(m)	65	<b>46</b>	---	---
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185(m)	65	<b>57</b>	---	---
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	---	---
Magnesium	ppm	ASTM D5185(m)	1160	<b>1076</b>	---	---
Calcium	ppm	ASTM D5185(m)	820	<b>830</b>	---	---
Phosphorus	ppm	ASTM D5185(m)	1160	<b>1018</b>	---	---
Zinc	ppm	ASTM D5185(m)	1260	<b>1158</b>	---	---
Sulfur	ppm	ASTM D5185(m)	3000	<b>2952</b>	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>17.9</b>	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	95.1	<b>78.9</b>	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.3	<b>12.9</b>	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	169	<b>164</b>	---	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0082057  
**Lab Number** : 02619153  
**Unique Number** : 5736263  
**Test Package** : MOB 1 ( Additional Tests: KV40, VI )  
**Received** : 01 Mar 2024  
**Tested** : 01 Mar 2024  
**Diagnosed** : 01 Mar 2024 - Wes Davis

Green Infrastructure and Partners Inc (GPI) - 286 - Shoring & Foundations  
 151 Ram Forest Rd,  
 Stouffville, ON  
 CA L4A 2G8  
 Contact: Shannon Abbott  
 sabbott@gipi.com  
 T: (905)750-5900  
 F:

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.