

Machine Id  
**RST7124**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON UHP 5W40 (8 LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PC0082044</b>	PC0050481	PC0047867
Sample Date		Client Info		<b>09 Jan 2024</b>	28 Oct 2021	18 Jun 2021
Machine Age	hrs	Client Info		<b>315</b>	2540	1971
Oil Age	hrs	Client Info		<b>500</b>	0	1295
Filter Age	hrs	Client Info		<b>500</b>	0	1295
Oil Changed		Client Info		<b>N/A</b>	Changed	Changed
Filter Changed		Client Info		<b>N/A</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>100	<b>8</b>	10	5
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	<b>3</b>	2	1
Lead	ppm	ASTM D5185(m)	>40	<b>&lt;1</b>	<1	0
Copper	ppm	ASTM D5185(m)	>330	<b>2</b>	<1	<1
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---

**CONTAMINATION**

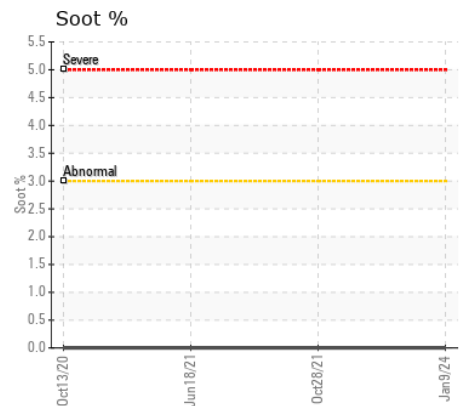
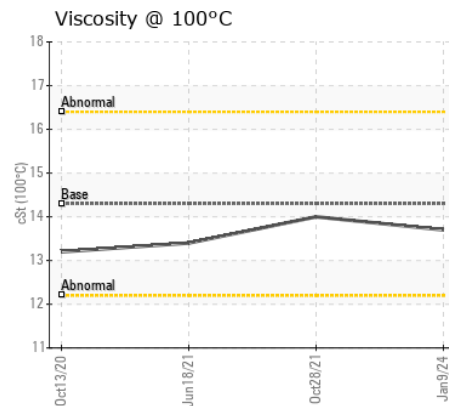
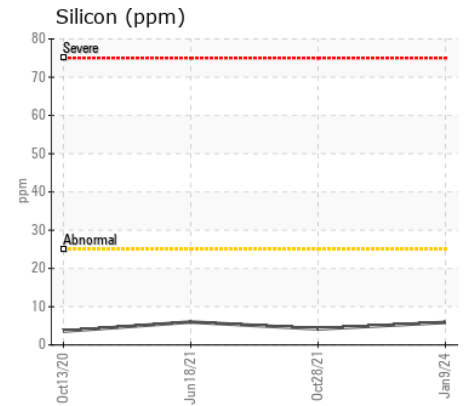
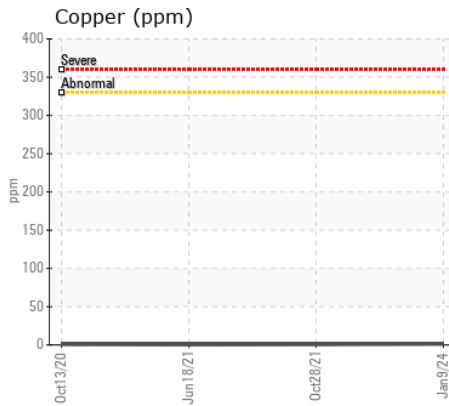
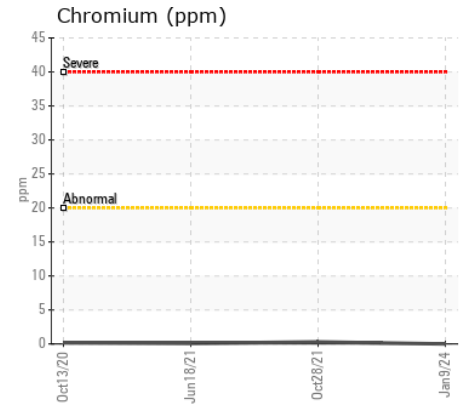
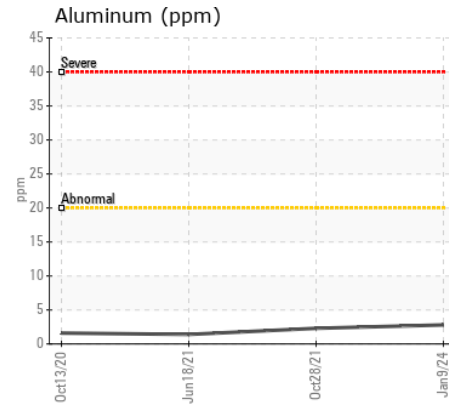
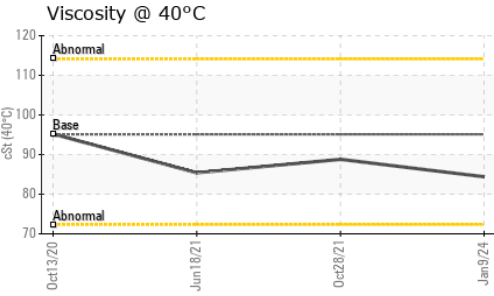
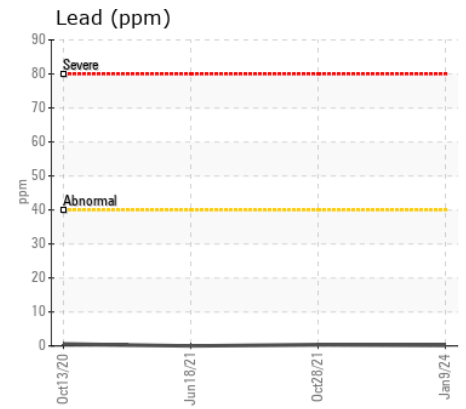
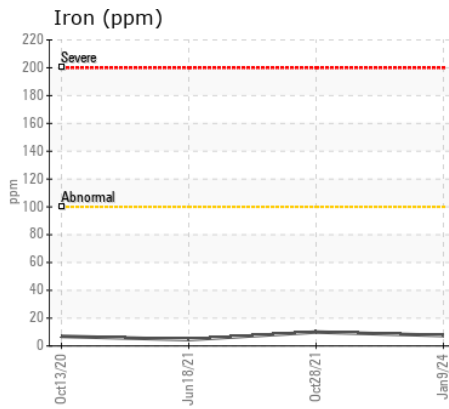
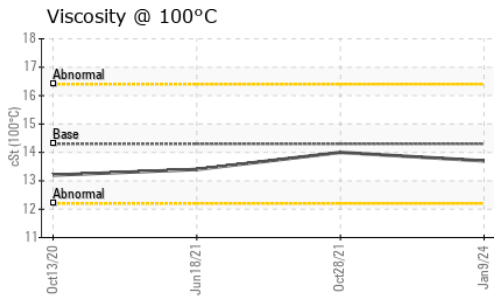
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>6</b>	4	6
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	1	<1
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	ASTM D7844*	>3	<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>7.9</b>	8.4	7.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>19.1</b>	20.5	19.2
Silt	scalar	Visual*	NONE	<b>VLITE</b>	---	---
Debris	scalar	Visual*	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	---	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

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

Sodium	ppm	ASTM D5185(m)		<b>4</b>	5	4
Boron	ppm	ASTM D5185(m)	65	<b>46</b>	47	45
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	65	<b>55</b>	64	57
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	1160	<b>1046</b>	1315	1131
Calcium	ppm	ASTM D5185(m)	820	<b>790</b>	959	902
Phosphorus	ppm	ASTM D5185(m)	1160	<b>947</b>	1172	1101
Zinc	ppm	ASTM D5185(m)	1260	<b>1135</b>	1374	1263
Sulfur	ppm	ASTM D5185(m)	3000	<b>2685</b>	3038	2903
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>17.1</b>	17.8	16.9
Visc @ 40°C	cSt	ASTM D7279(m)	95.1	<b>84.4</b>	88.8	85.4
Visc @ 100°C	cSt	ASTM D7279(m)	14.3	<b>13.7</b>	14.0	13.4
Viscosity Index (VI)	Scale	ASTM D2270*	169	<b>166</b>	162	159



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Green Infrastructure and Partners Inc (GIPI) - 286 - Shoring & Foundations  
**Sample No.** : PC0082044 **Received** : 10 Jan 2024  
**Lab Number** : 02607742 **Diagnosed** : 10 Jan 2024  
**Unique Number** : 5708828 **Diagnostician** : 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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