



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

Machine Id  
**CR235**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON UHP 5W40 (32 LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PC0078378</b>	PC0078072	PC0072907
Sample Date		Client Info		<b>06 Nov 2023</b>	29 Jun 2023	10 Mar 2023
Machine Age	hrs	Client Info		<b>7736</b>	0	5306
Oil Age	hrs	Client Info		<b>250</b>	0	0
Filter Age	hrs	Client Info		<b>250</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	<b>7</b>	9	13
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	2	2
Nickel	ppm	ASTM D5185(m)	>4	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>1</b>	<1	1
Lead	ppm	ASTM D5185(m)	>40	<b>1</b>	1	3
Copper	ppm	ASTM D5185(m)	>330	<b>2</b>	1	2
Tin	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

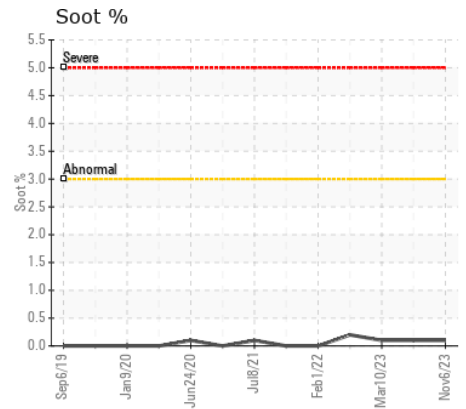
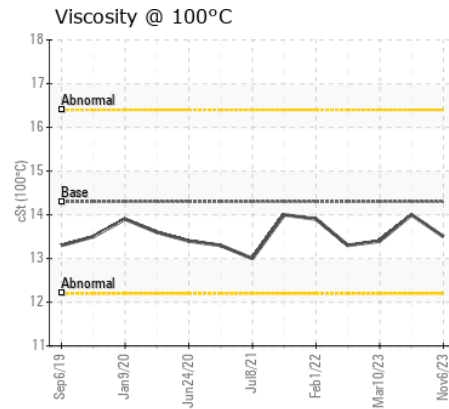
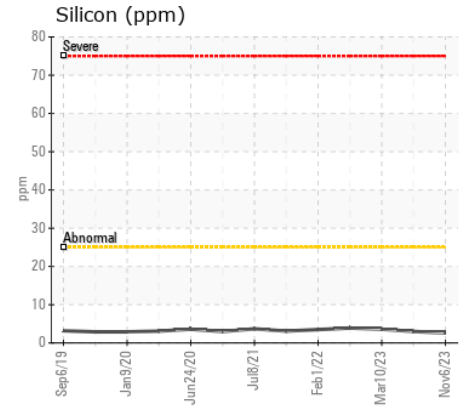
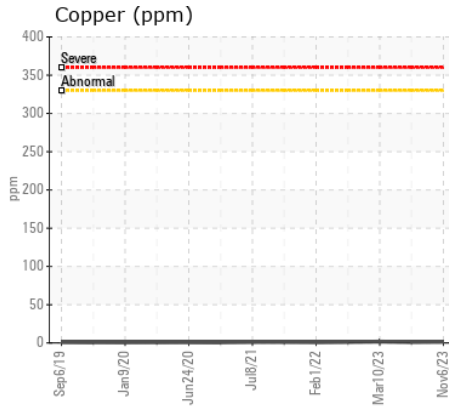
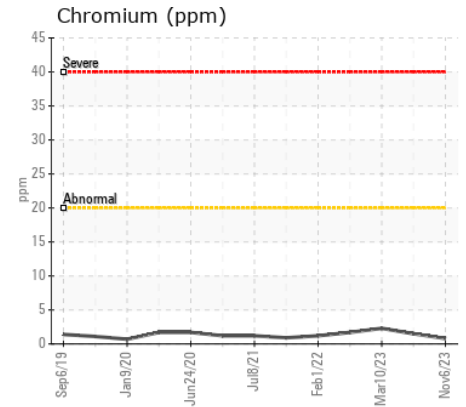
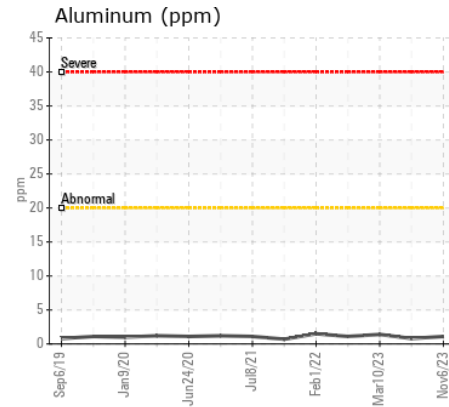
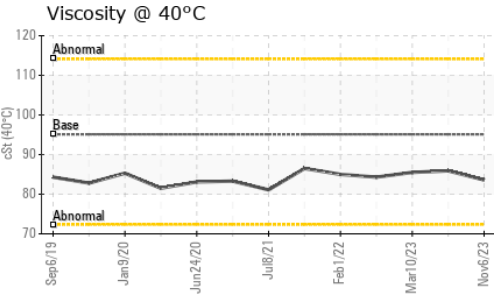
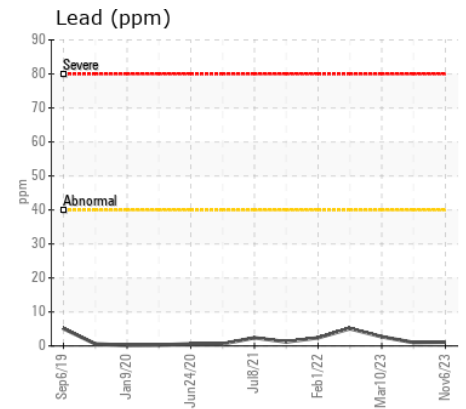
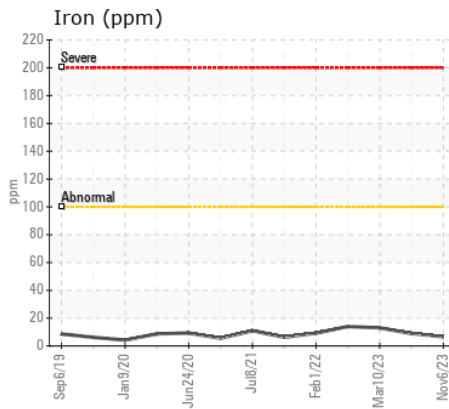
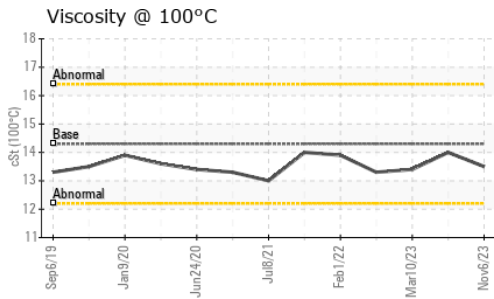
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>3</b>	3	4
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	0	<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>0.1</b>	0.1	0.1
Nitration	Abs/cm	ASTM D7624*	>20	<b>10.7</b>	11.4	11.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>21.1</b>	21.8	25.8
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>3</b>	4	3
Boron	ppm	ASTM D5185(m)	65	<b>31</b>	36	32
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	65	<b>53</b>	54	55
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	1160	<b>1021</b>	1062	1018
Calcium	ppm	ASTM D5185(m)	820	<b>795</b>	813	799
Phosphorus	ppm	ASTM D5185(m)	1160	<b>953</b>	1021	965
Zinc	ppm	ASTM D5185(m)	1260	<b>1130</b>	1146	1064
Sulfur	ppm	ASTM D5185(m)	3000	<b>2724</b>	2718	2634
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>22.2</b>	22.9	26.1
Visc @ 40°C	cSt	ASTM D7279(m)	95.1	<b>83.6</b>	85.9	85.5
Visc @ 100°C	cSt	ASTM D7279(m)	14.3	<b>13.5</b>	14.0	13.4
Viscosity Index (VI)	Scale	ASTM D2270*	169	<b>164</b>	168	158



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Green Infrastructure and Partners Inc (GPI) - 286 - Shoring & Foundations  
**Sample No.** : PC0078378 **Received** : 10 Jan 2024  
**Lab Number** : 02607737 **Diagnosed** : 11 Jan 2024  
**Unique Number** : 5708823 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: KV40, VI )

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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.