



Area  
**FEL**  
Machine Id  
**14183**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 10W30 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PC0071322</b>	PC0061024	---
Sample Date		Client Info		<b>05 Mar 2024</b>	06 Nov 2022	---
Machine Age	hrs	Client Info		<b>0</b>	0	---
Oil Age	hrs	Client Info		<b>0</b>	0	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>N/A</b>	N/A	---
Filter Changed		Client Info		<b>N/A</b>	N/A	---
Sample Status				<b>NORMAL</b>	NORMAL	---

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>120	<b>3</b>	23	---
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	<1	---
Nickel	ppm	ASTM D5185(m)	>5	<b>0</b>	<1	---
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	---
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185(m)	>20	<b>1</b>	2	---
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	5	---
Copper	ppm	ASTM D5185(m)	>330	<b>&lt;1</b>	2	---
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	1	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	---

**CONTAMINATION**

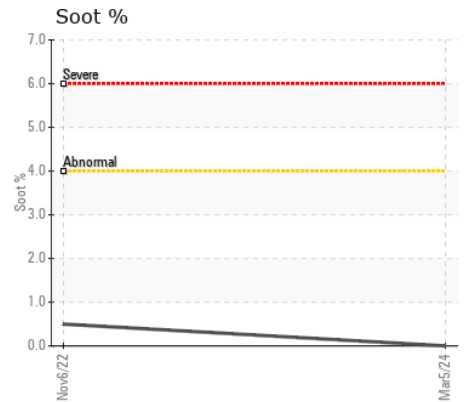
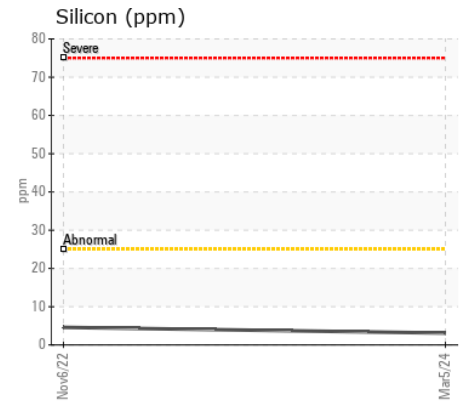
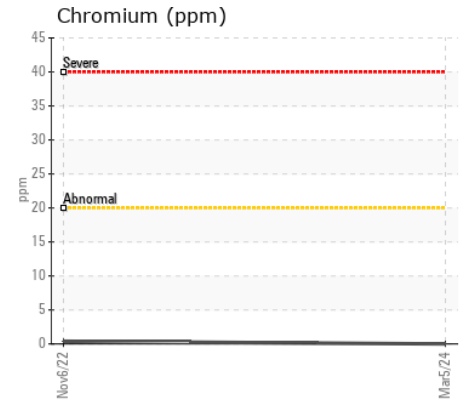
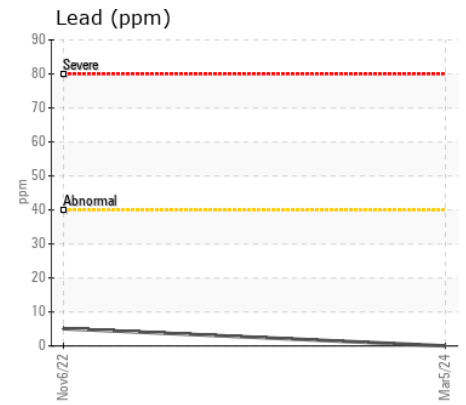
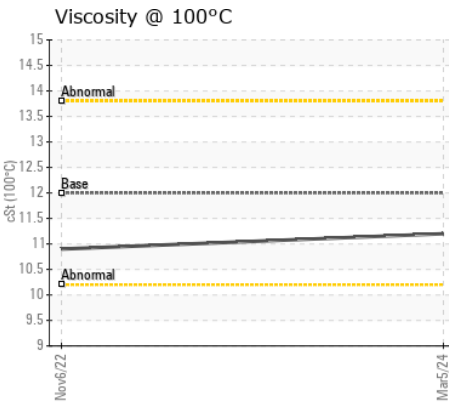
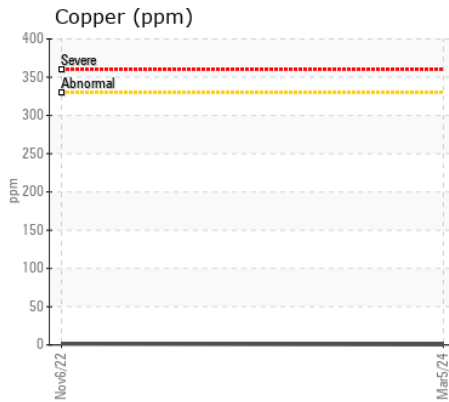
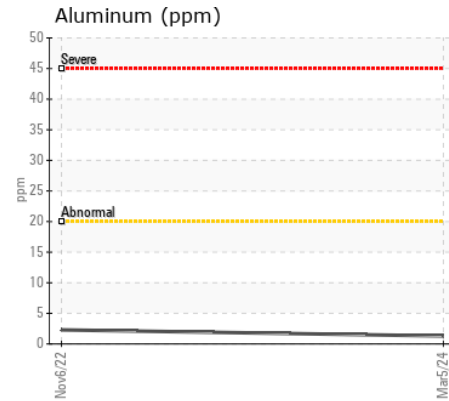
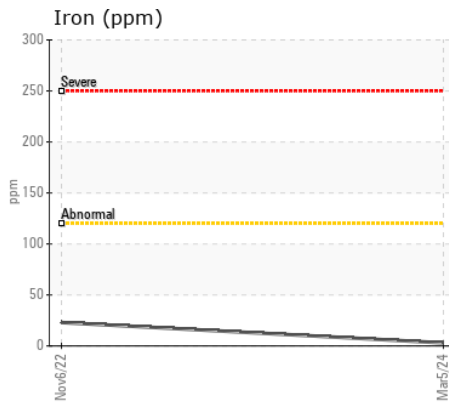
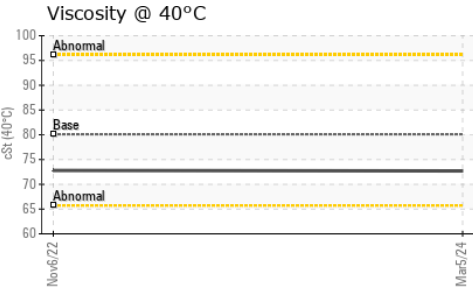
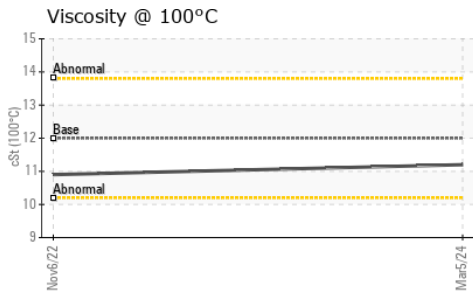
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>3</b>	5	---
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	3	---
Fuel		WC Method	>3.0	<b>&lt;1.0</b>	<1.0	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol		WC Method		<b>NEG</b>	NEG	---
Soot %	%	ASTM D7844*	>4	<b>0</b>	0.5	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>5.1</b>	12.1	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>17.8</b>	25.1	---
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	---

**FLUID CONDITION**

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

Sodium	ppm	ASTM D5185(m)		<b>4</b>	13	---
Boron	ppm	ASTM D5185(m)	2	<b>16</b>	12	---
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185(m)	50	<b>58</b>	60	---
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	<1	---
Magnesium	ppm	ASTM D5185(m)	950	<b>910</b>	957	---
Calcium	ppm	ASTM D5185(m)	1050	<b>1010</b>	1019	---
Phosphorus	ppm	ASTM D5185(m)	995	<b>982</b>	1003	---
Zinc	ppm	ASTM D5185(m)	1180	<b>1114</b>	1154	---
Sulfur	ppm	ASTM D5185(m)	2600	<b>2709</b>	2047	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>13.0</b>	22.2	---
Visc @ 40°C	cSt	ASTM D7279(m)	80.1	<b>72.7</b>	72.8	---
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	<b>11.2</b>	10.9	---
Viscosity Index (VI)	Scale	ASTM D2270*	144	<b>145</b>	138	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0071322 **Received** : 06 Mar 2024  
**Lab Number** : **02620125** **Tested** : 06 Mar 2024  
**Unique Number** : 5737235 **Diagnosed** : 06 Mar 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: KV40, VI )

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.

**Wasteco**  
 161 Bridgeland Ave.  
 Toronto, ON  
 CA M6A 1Z1  
 Contact: Steve Andrade  
 sandrade@wasteco.com  
 T: (416)787-5000  
 F: (416)787-6210