



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



Machine Id  
**11134**  
Component  
**Front Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 10W30 (40 LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PC0071320</b>	PC0071335	PC0071879
Sample Date		Client Info		<b>05 Mar 2024</b>	09 Nov 2023	28 Aug 2023
Machine Age	hrs	Client Info		<b>0</b>	0	0
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>120	<b>13</b>	8	9
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	0	<1
Nickel	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>2</b>	1	1
Lead	ppm	ASTM D5185(m)	>40	<b>&lt;1</b>	<1	0
Copper	ppm	ASTM D5185(m)	>330	<b>4</b>	<1	1
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

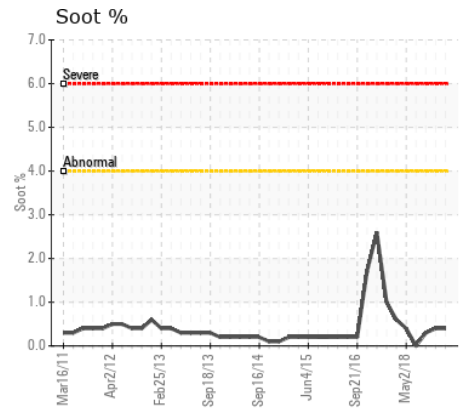
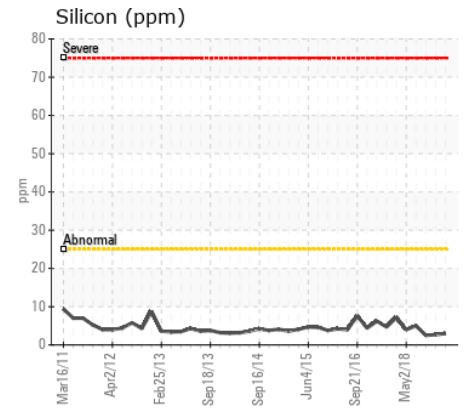
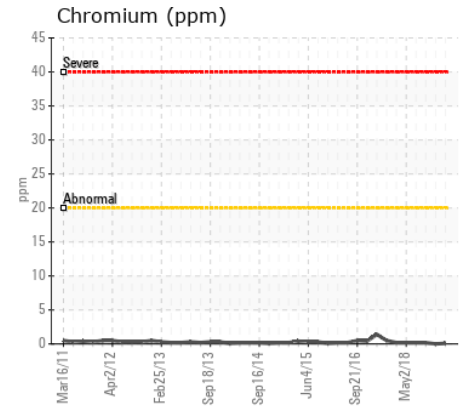
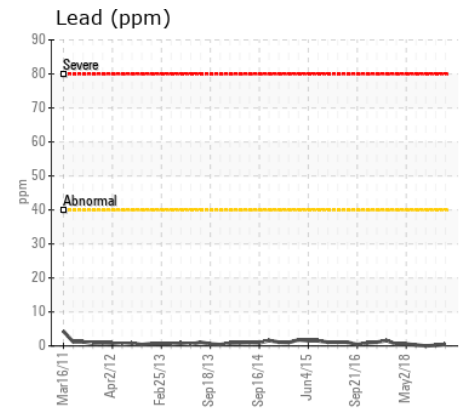
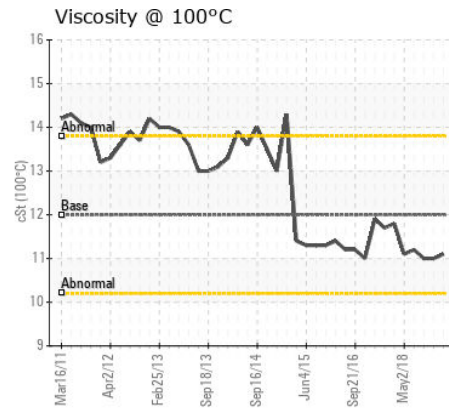
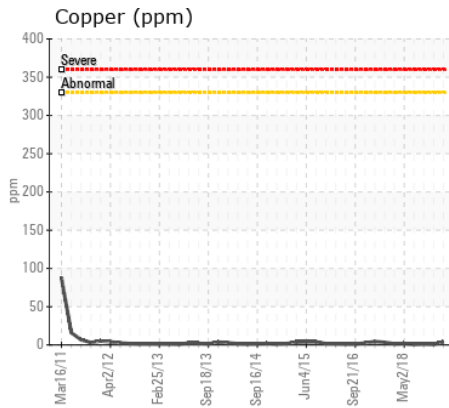
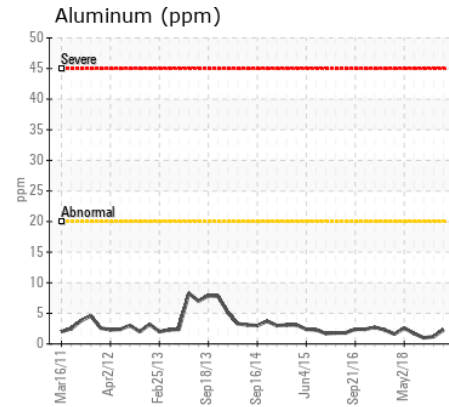
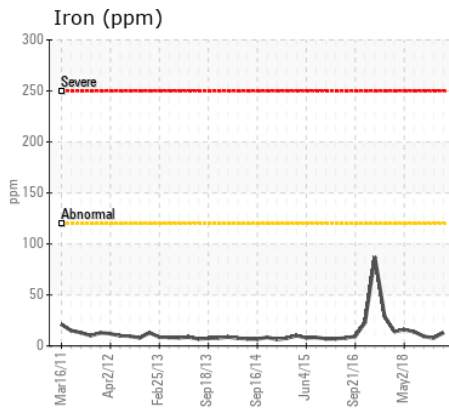
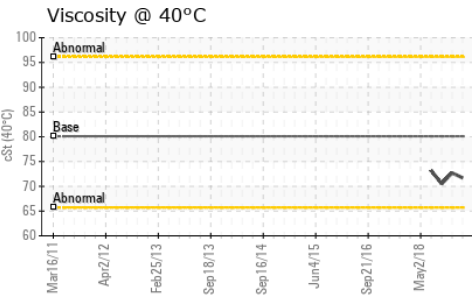
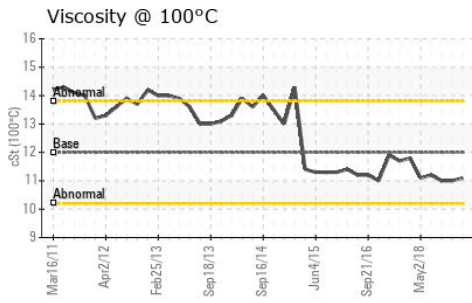
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>3</b>	3	2
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	0	<1
Fuel		WC Method	>3.0	<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*	>4	<b>0.4</b>	0.4	0.3
Nitration	Abs/cm	ASTM D7624*	>20	<b>11.8</b>	11.5	11.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>21.2</b>	22.7	21.8
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>13</b>	9	8
Boron	ppm	ASTM D5185(m)	2	<b>5</b>	3	5
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185(m)	50	<b>59</b>	58	59
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185(m)	950	<b>868</b>	917	920
Calcium	ppm	ASTM D5185(m)	1050	<b>999</b>	1001	1008
Phosphorus	ppm	ASTM D5185(m)	995	<b>879</b>	926	981
Zinc	ppm	ASTM D5185(m)	1180	<b>1092</b>	1119	1126
Sulfur	ppm	ASTM D5185(m)	2600	<b>2570</b>	2374	2463
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>19.4</b>	20.7	17.6
Visc @ 40°C	cSt	ASTM D7279(m)	80.1	<b>71.7</b>	72.7	70.5
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	<b>11.1</b>	11.0	11.0
Viscosity Index (VI)	Scale	ASTM D2270*	144	<b>145</b>	141	146



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0071320 **Received** : 06 Mar 2024  
**Lab Number** : 02620120 **Tested** : 06 Mar 2024  
**Unique Number** : 5737230 **Diagnosed** : 06 Mar 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: KV40, VI )

**Wasteco**  
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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.