

Machine Id  
**1701**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON HP 15W40 (9 GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PCA0111334</b>	PCA0087577	PCA0087641
Sample Date		Client Info		<b>06 Jan 2024</b>	16 Sep 2023	21 Jul 2023
Machine Age	mls	Client Info		<b>912381</b>	894149	876823
Oil Age	mls	Client Info		<b>20000</b>	20000	20000
Filter Age	mls	Client Info		<b>10000</b>	10000	10000
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 D5185m	>100	<b>26</b>	30	32
Chromium	ppm	ASTM D5185m	>20	<b>1</b>	2	3
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>2</b>	2	2
Lead	ppm	ASTM D5185m	>40	<b>0</b>	1	2
Copper	ppm	ASTM D5185m	>330	<b>2</b>	1	2
Tin	ppm	ASTM D5185m	>15	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

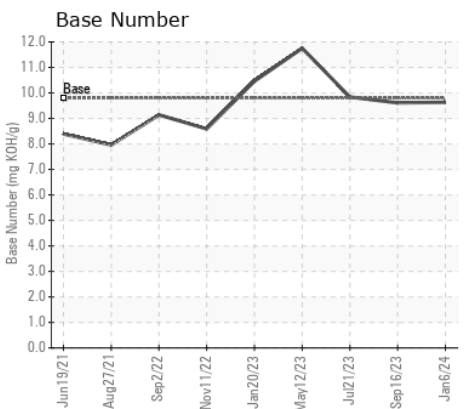
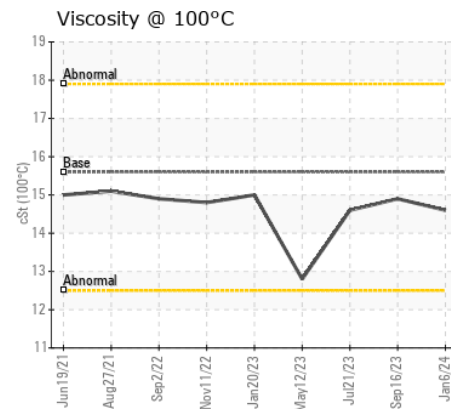
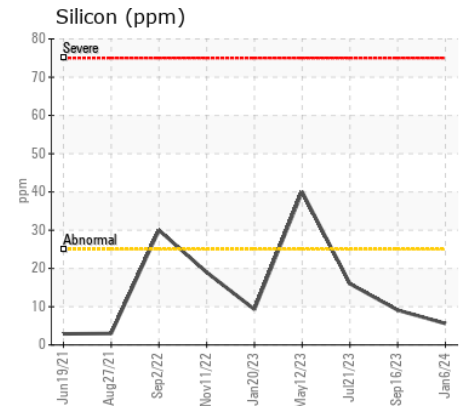
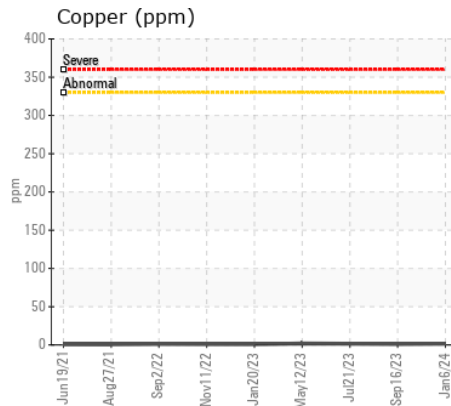
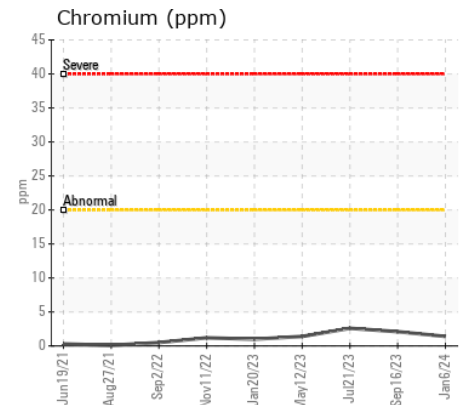
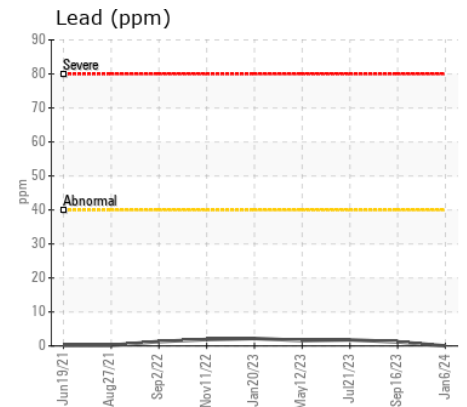
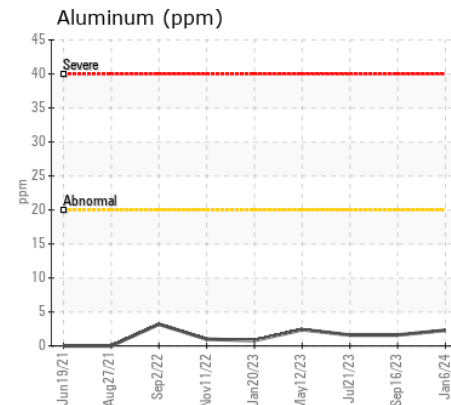
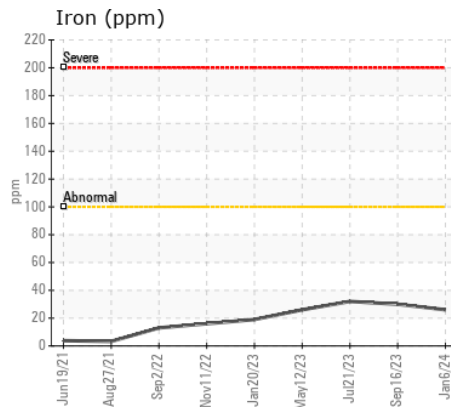
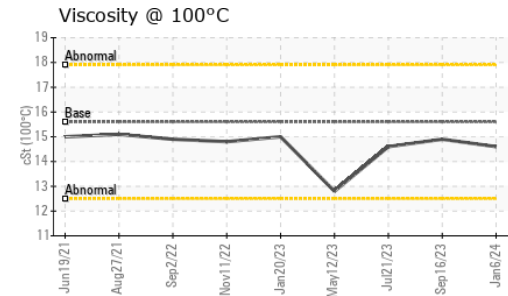
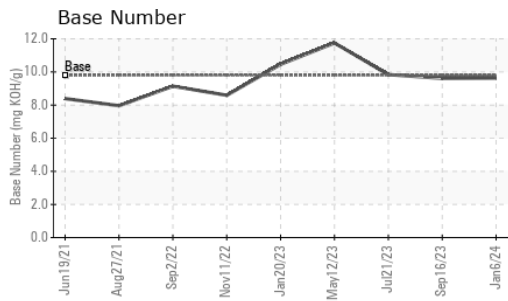
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>6</b>	9	16
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	2	2
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>0.6</b>	0.2	0.8
Nitration	Abs/cm	*ASTM D7624	>20	<b>6.5</b>	7.1	6.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>21.7</b>	24.8	21.9
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>4</b>	9	22
Boron	ppm	ASTM D5185m		<b>0</b>	2	<1
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>103</b>	108	108
Manganese	ppm	ASTM D5185m		<b>1</b>	<1	1
Magnesium	ppm	ASTM D5185m		<b>877</b>	880	1022
Calcium	ppm	ASTM D5185m		<b>972</b>	1051	1111
Phosphorus	ppm	ASTM D5185m		<b>952</b>	959	1011
Zinc	ppm	ASTM D5185m		<b>1172</b>	1194	1295
Sulfur	ppm	ASTM D5185m		<b>2746</b>	3158	3629
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>18.2</b>	18.6	17.5
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>9.63</b>	9.61	9.84
Visc @ 100°C	cSt	ASTM D445	15.6	<b>14.6</b>	14.9	14.6



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0111334 **Received** : 16 Jan 2024  
**Lab Number** : 06062190 **Diagnosed** : 18 Jan 2024  
**Unique Number** : 10833572 **Diagnostician** : Wes Davis  
**Test Package** : MOB 2

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To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)