

Machine Id  
**75**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON HP 15W40 (--- GAL)**

**RECOMMENDATION**

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PCA0119753</b>	PCA0111348	PCA0111241
Sample Date		Client Info		<b>17 May 2024</b>	05 Apr 2024	09 Feb 2024
Machine Age	mls	Client Info		<b>634512</b>	617118	597110
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>MARGINAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>25</b>	22	28
Chromium	ppm	ASTM D5185m	>20	<b>2</b>	1	3
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	0	1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m	>3	<b>1</b>	0	<1
Aluminum	ppm	ASTM D5185m	>20	<b>1</b>	2	2
Lead	ppm	ASTM D5185m	>40	<b>8</b>	9	9
Copper	ppm	ASTM D5185m	>330	<b>1</b>	<1	1
Tin	ppm	ASTM D5185m	>15	<b>1</b>	0	1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

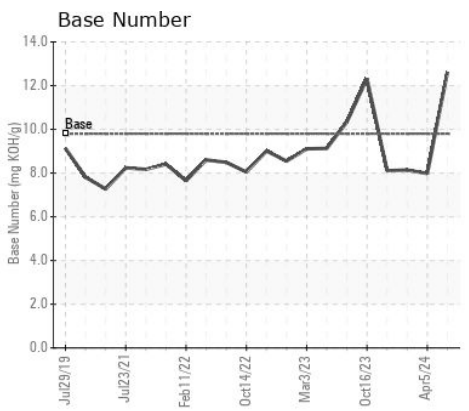
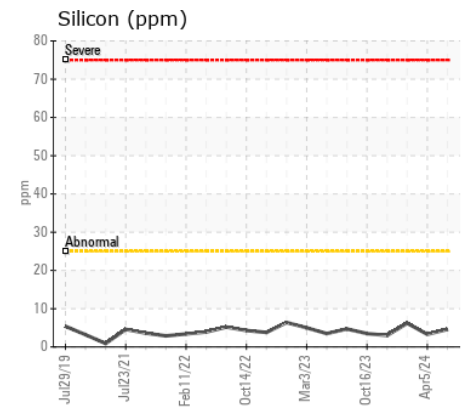
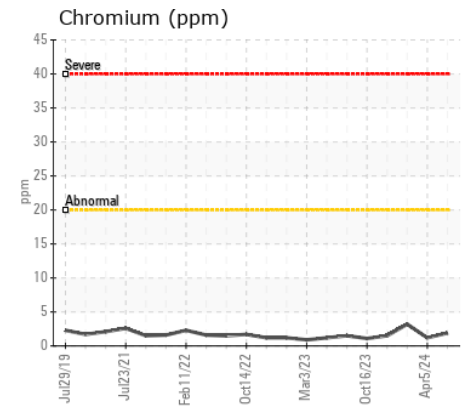
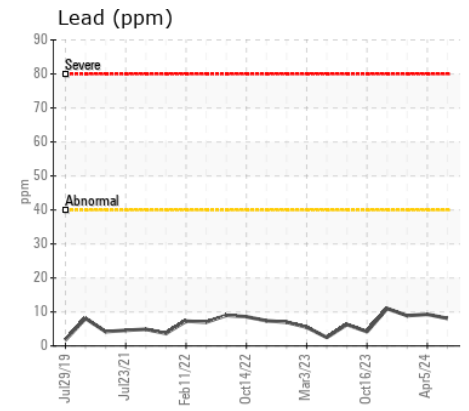
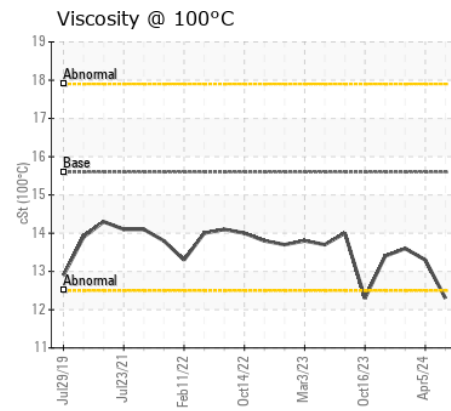
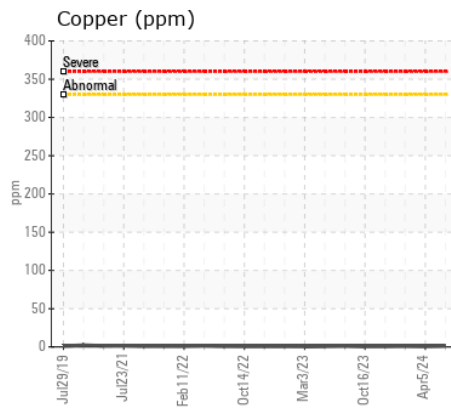
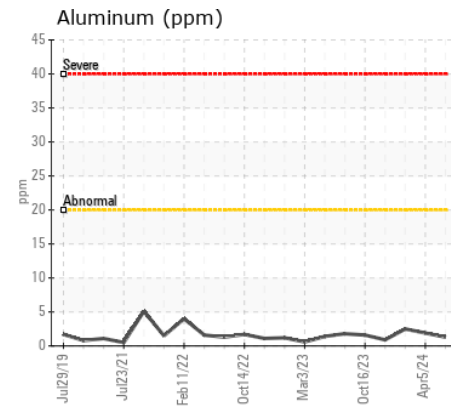
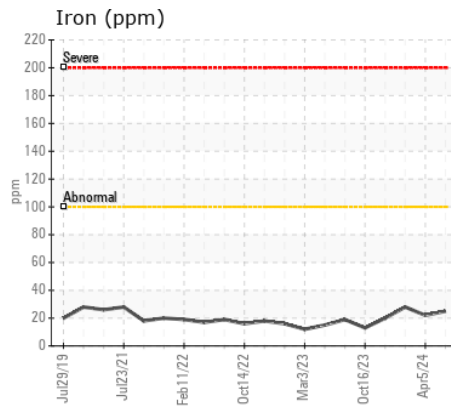
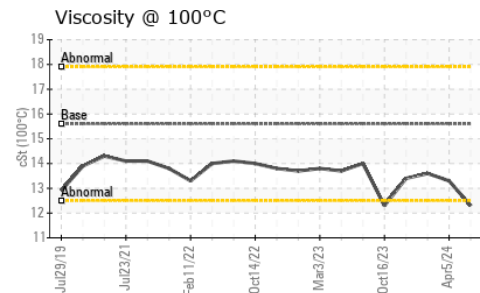
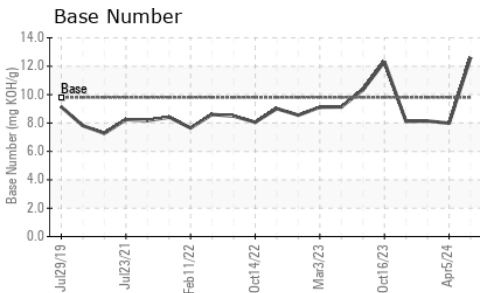
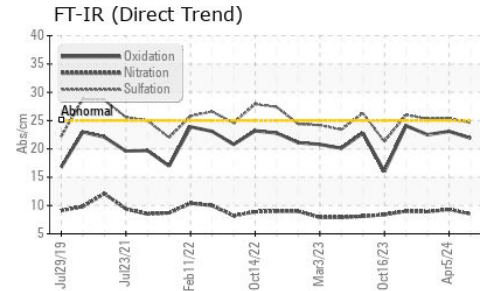
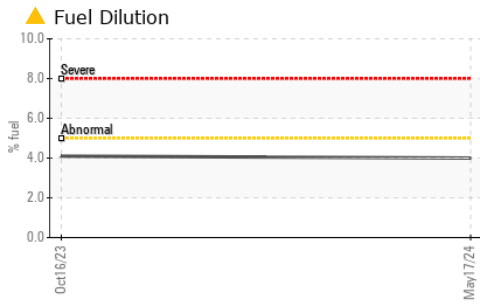
Light fuel dilution occurring. No other contaminants were detected in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>5</b>	3	6
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	4	3
Fuel	%	ASTM D3524	>5	<b>▲ 4.0</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>1.6</b>	1.3	1.5
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.5</b>	9.3	8.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>24.6</b>	25.4	25.3
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>2</b>	6	6
Boron	ppm	ASTM D5185m		<b>7</b>	0	2
Barium	ppm	ASTM D5185m		<b>1</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>68</b>	101	148
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>1007</b>	910	1382
Calcium	ppm	ASTM D5185m		<b>1149</b>	1018	1437
Phosphorus	ppm	ASTM D5185m		<b>1046</b>	922	1357
Zinc	ppm	ASTM D5185m		<b>1306</b>	1149	1724
Sulfur	ppm	ASTM D5185m		<b>3325</b>	3217	4944
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>21.9</b>	23.1	22.5
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>12.61</b>	7.98	8.14
Visc @ 100°C	cSt	ASTM D445	15.6	<b>12.3</b>	13.3	13.6



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : PCA0119753

Lab Number : 06191214

Unique Number : 11047966

Test Package : MOB 2 ( Additional Tests: FuelDilution, PercentFuel )

Received : 24 May 2024

Tested : 29 May 2024

Diagnosed : 29 May 2024 - Wes Davis

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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)