



Machine Id  
**26611**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON UHP 5W30 (--- QTS)**

**RECOMMENDATION**

We advise that you check the fuel injection system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PCA0119548</b>	PCA0107407	PCA0095194
Sample Date		Client Info		<b>22 Feb 2024</b>	06 Oct 2023	26 Mar 2023
Machine Age	mls	Client Info		<b>594764</b>	575182	0
Oil Age	mls	Client Info		<b>0</b>	38717	40000
Filter Age	mls	Client Info		<b>0</b>	38717	20000
Oil Changed		Client Info		<b>Not Changd</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>SEVERE</b>	SEVERE	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>12</b>	18	26
Chromium	ppm	ASTM D5185m	>20	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>4</b>	2	7
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	<1
Aluminum	ppm	ASTM D5185m	>20	<b>2</b>	2	2
Lead	ppm	ASTM D5185m	>40	<b>0</b>	2	2
Copper	ppm	ASTM D5185m	>330	<b>3</b>	3	5
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**

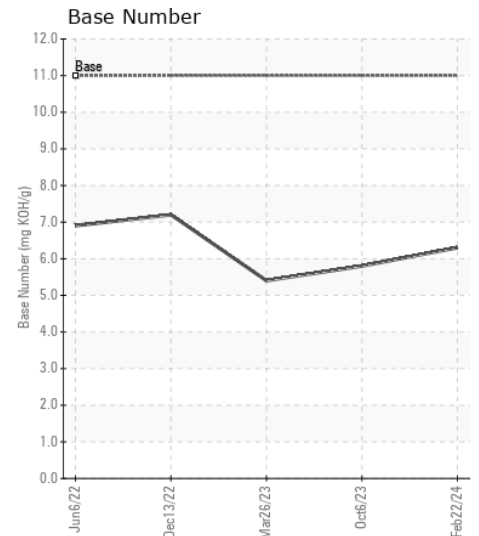
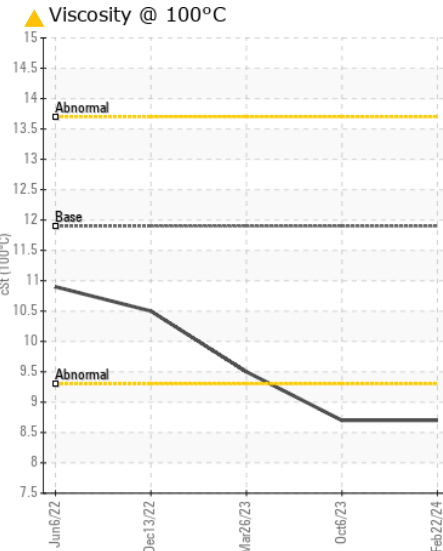
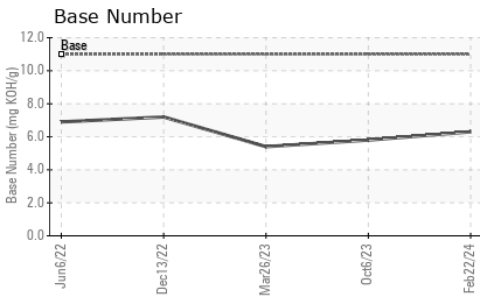
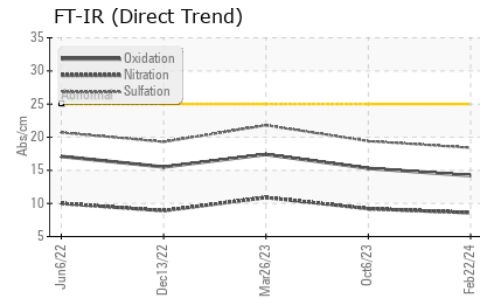
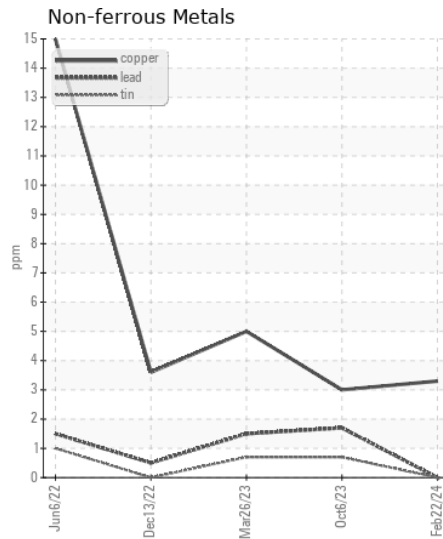
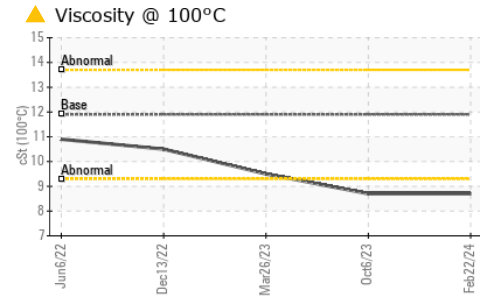
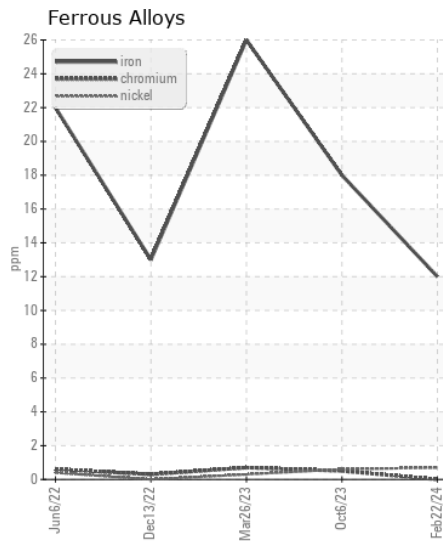
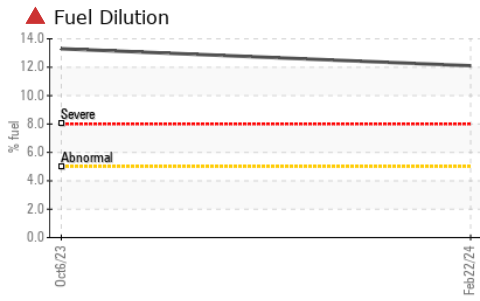
There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>4</b>	4	5
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	4	2
Fuel	%	ASTM D3524	>5	<b>▲ 12.1</b>	<b>▲ 13.3</b>	<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>0.2</b>	0.3	0.5
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.6</b>	9.2	10.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>18.4</b>	19.4	21.8
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. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185m		<b>6</b>	8	11
Boron	ppm	ASTM D5185m	0	<b>11</b>	0	3
Barium	ppm	ASTM D5185m	0	<b>0</b>	12	0
Molybdenum	ppm	ASTM D5185m	64	<b>46</b>	52	51
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	1160	<b>803</b>	783	829
Calcium	ppm	ASTM D5185m	820	<b>1020</b>	951	1063
Phosphorus	ppm	ASTM D5185m	1160	<b>915</b>	881	872
Zinc	ppm	ASTM D5185m	1260	<b>1112</b>	1057	1137
Sulfur	ppm	ASTM D5185m	3000	<b>3246</b>	2759	3299
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>14.2</b>	15.3	17.4
Base Number (BN)	mg KOH/g	ASTM D2896	11.0	<b>6.3</b>	5.8	5.4
Visc @ 100°C	cSt	ASTM D445	11.9	<b>▲ 8.7</b>	▲ 8.7	9.5



Certificate L2367

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

Sample No. : PCA0119548

Lab Number : 06219429

Unique Number : 11097626

Test Package : FLEET ( Additional Tests: PercentFuel )

Received : 25 Jun 2024

Tested : 27 Jun 2024

Diagnosed : 27 Jun 2024 - Wes Davis

PERDUE FARMS - GEORGETOWN

20621 SAVANAH RD

GEORGETOWN, DE

US 19947

Contact: ROBERT LOCKWOOD

Robert.Lockwood@Perdue.com

T:

F:

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)