



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

Machine Id  
**2327156**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 10W30 (--- QTS)**

**RECOMMENDATION**

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PCA0121394</b>	---	---
Sample Date		Client Info		<b>08 Apr 2024</b>	---	---
Machine Age	mls	Client Info		<b>18418</b>	---	---
Oil Age	mls	Client Info		<b>18418</b>	---	---
Filter Age	mls	Client Info		<b>18418</b>	---	---
Oil Changed		Client Info		<b>Changed</b>	---	---
Filter Changed		Client Info		<b>Changed</b>	---	---
Sample Status				<b>NORMAL</b>	---	---

**WEAR**

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>100	<b>37</b>	---	---
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	---	---
Nickel	ppm	ASTM D5185m	>4	<b>4</b>	---	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Silver	ppm	ASTM D5185m	>3	<b>22</b>	---	---
Aluminum	ppm	ASTM D5185m	>20	<b>26</b>	---	---
Lead	ppm	ASTM D5185m	>40	<b>0</b>	---	---
Copper	ppm	ASTM D5185m	>330	<b>45</b>	---	---
Tin	ppm	ASTM D5185m	>15	<b>3</b>	---	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---

**CONTAMINATION**

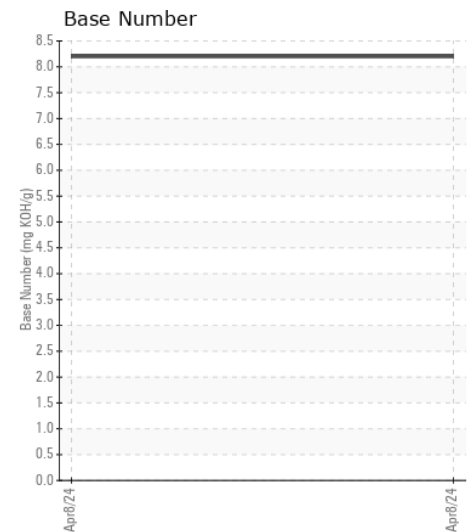
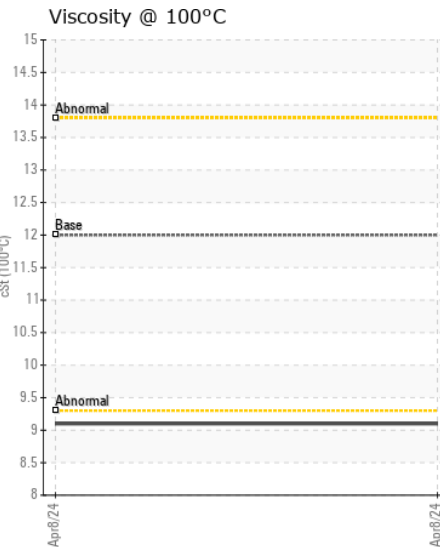
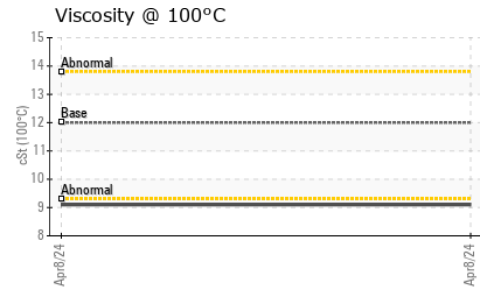
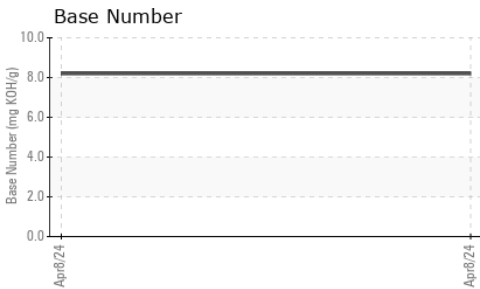
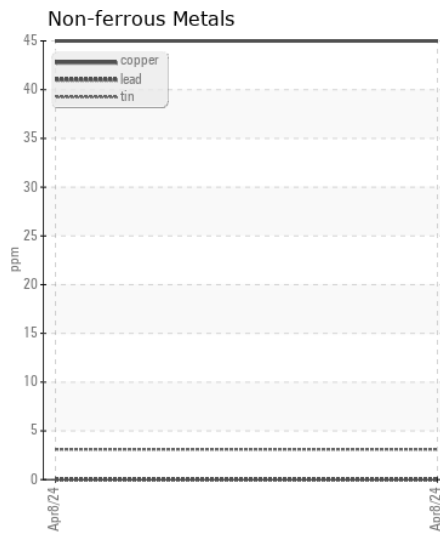
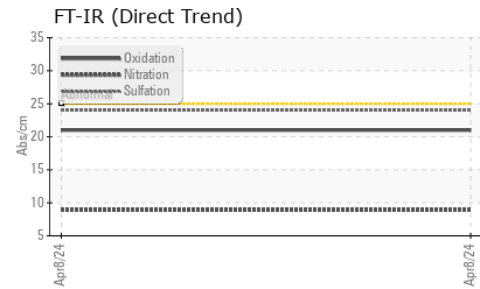
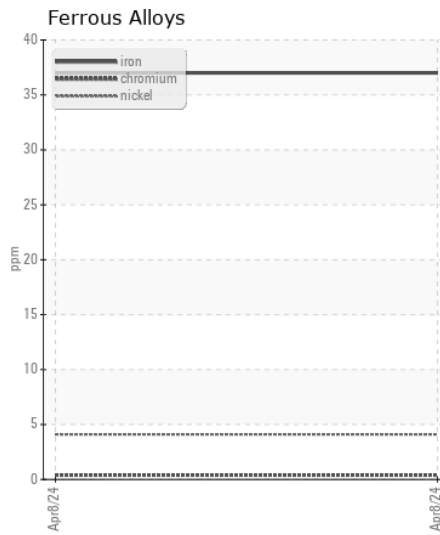
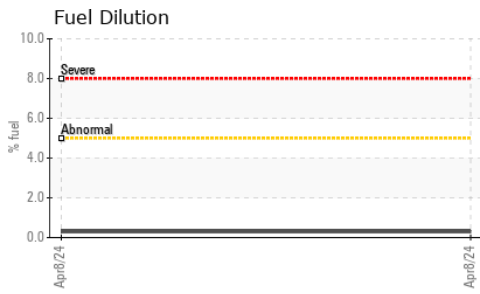
Fuel content negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>58</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>71</b>	---	---
Fuel	%	ASTM D3524	>5	<b>0.3</b>	---	---
Water		WC Method	>0.2	<b>NEG</b>	---	---
Glycol		WC Method		<b>NEG</b>	---	---
Soot %	%	*ASTM D7844	>3	<b>0.2</b>	---	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.9</b>	---	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>24.0</b>	---	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	---	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	---	---
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	---	---

**FLUID CONDITION**

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

Sodium	ppm	ASTM D5185m		<b>5</b>	---	---
Boron	ppm	ASTM D5185m	2	<b>277</b>	---	---
Barium	ppm	ASTM D5185m	0	<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185m	50	<b>120</b>	---	---
Manganese	ppm	ASTM D5185m	0	<b>5</b>	---	---
Magnesium	ppm	ASTM D5185m	950	<b>705</b>	---	---
Calcium	ppm	ASTM D5185m	1050	<b>1542</b>	---	---
Phosphorus	ppm	ASTM D5185m	995	<b>733</b>	---	---
Zinc	ppm	ASTM D5185m	1180	<b>861</b>	---	---
Sulfur	ppm	ASTM D5185m	2600	<b>2899</b>	---	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>21.0</b>	---	---
Base Number (BN)	mg KOH/g	ASTM D2896		<b>8.2</b>	---	---
Visc @ 100°C	cSt	ASTM D445	12.00	<b>9.1</b>	---	---



Certificate L2367

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

**Sample No.** : PCA0121394

**Lab Number** : 06219408

**Unique Number** : 11097605

**Test Package** : FLEET ( Additional Tests: FuelDilution, PercentFuel )

**Received** : 25 Jun 2024

**Tested** : 28 Jun 2024

**Diagnosed** : 28 Jun 2024 - Jonathan Hester

**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)