



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

Machine Id  
**04537**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 10W30 (9 QTS)**

**RECOMMENDATION**

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PCA0116244</b>	PCA0116212	PCA0112290
Sample Date		Client Info		<b>26 Feb 2024</b>	25 Jan 2024	22 Dec 2023
Machine Age	hrs	Client Info		<b>12046</b>	11950	11276
Oil Age	hrs	Client Info		<b>11950</b>	200	11276
Filter Age	hrs	Client Info		<b>0</b>	200	0
Oil Changed		Client Info		<b>N/A</b>	Changed	N/A
Filter Changed		Client Info		<b>N/A</b>	Changed	N/A
Sample Status				<b>ABNORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>12</b>	8	4
Chromium	ppm	ASTM D5185m	>20	<b>2</b>	<1	<1
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>3</b>	1	3
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185m	>330	<b>1</b>	<1	0
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

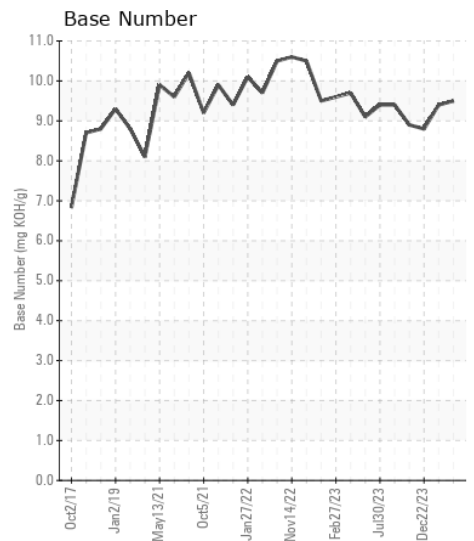
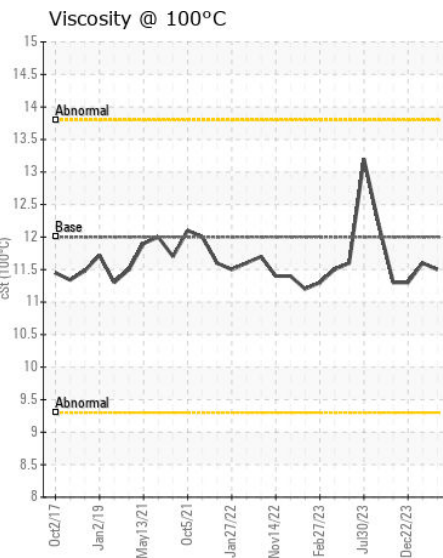
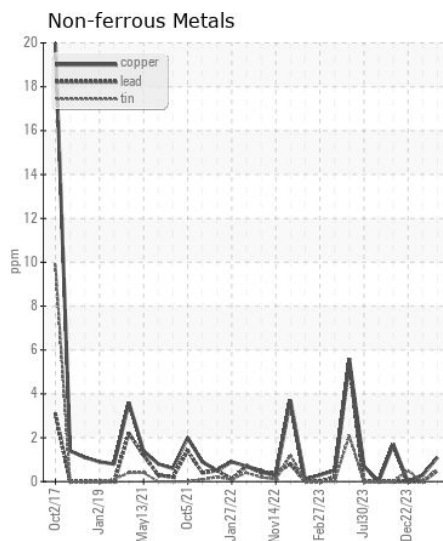
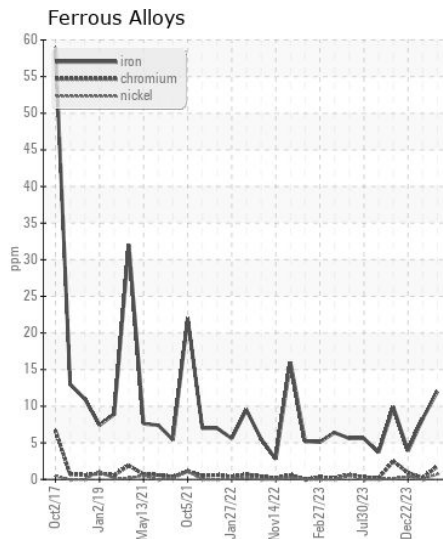
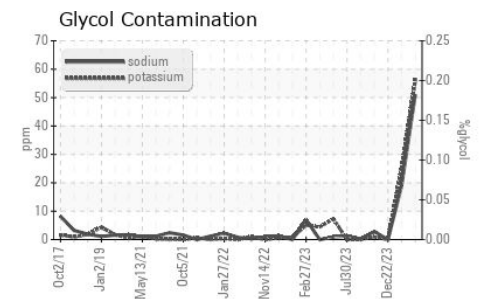
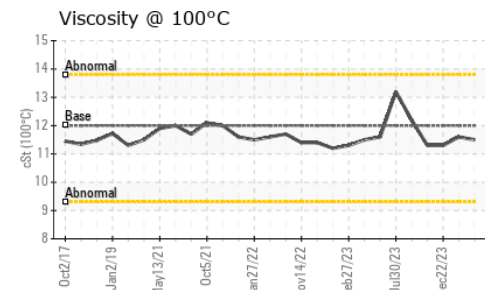
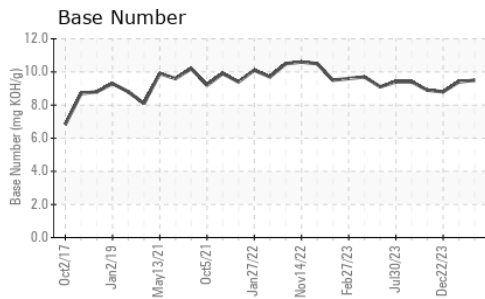
Sodium and/or potassium levels are high. Test for glycol is negative.

Silicon	ppm	ASTM D5185m	>25	<b>5</b>	3	3
Potassium	ppm	ASTM D5185m	>20	<b>56</b>	25	0
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol	%	*ASTM D2982		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.5</b>	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	<b>5.8</b>	5.4	5.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>17.7</b>	17.2	16.8
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. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>51</b>	19	0
Boron	ppm	ASTM D5185m	2	<b>6</b>	8	11
Barium	ppm	ASTM D5185m	0	<b>2</b>	8	0
Molybdenum	ppm	ASTM D5185m	50	<b>59</b>	62	58
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185m	950	<b>828</b>	858	899
Calcium	ppm	ASTM D5185m	1050	<b>976</b>	978	1036
Phosphorus	ppm	ASTM D5185m	995	<b>964</b>	865	995
Zinc	ppm	ASTM D5185m	1180	<b>1133</b>	1121	1232
Sulfur	ppm	ASTM D5185m	2600	<b>3365</b>	2948	3107
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>12.8</b>	12.7	12.3
Base Number (BN)	mg KOH/g	ASTM D2896		<b>9.5</b>	9.4	8.8
Visc @ 100°C	cSt	ASTM D445	12.00	<b>11.5</b>	11.6	11.3



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0116244 **Received** : 27 Feb 2024  
**Lab Number** : 06101375 **Tested** : 29 Feb 2024  
**Unique Number** : 10899605 **Diagnosed** : 29 Feb 2024 - Jonathan Hester  
**Test Package** : FLEET ( Additional Tests: Glycol )

**PERDUE FARMS - DILLON**  
 2047 HWY 9 WEST  
 DILLON, SC  
 US 29536  
 Contact: KEVIN HOOKS  
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 T: (843)841-8069  
 F: (843)841-8070

Certificate L2367  
 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)