



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

Area

**(YA139880)**

Machine Id

**3705**

Component

**Diesel Engine**

Fluid

**PETRO CANADA DURON SHP 15W40 (10 GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PCA0124232</b>	PCA0101759	PCA0101780
Sample Date		Client Info		<b>12 Jul 2024</b>	28 Feb 2024	09 Jan 2024
Machine Age	hrs	Client Info		<b>17917</b>	17346	17017
Oil Age	hrs	Client Info		<b>571</b>	329	649
Filter Age	hrs	Client Info		<b>571</b>	329	649
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	ABNORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>165	<b>19</b>	12	27
Chromium	ppm	ASTM D5185m	>5	<b>2</b>	2	4
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185m	>2	<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>3</b>	4	10
Lead	ppm	ASTM D5185m	>150	<b>1</b>	1	5
Copper	ppm	ASTM D5185m	>90	<b>4</b>	13	55
Tin	ppm	ASTM D5185m	>5	<b>&lt;1</b>	<1	2
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**

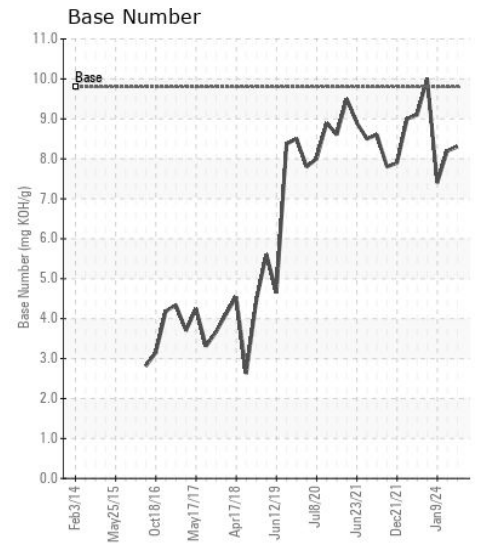
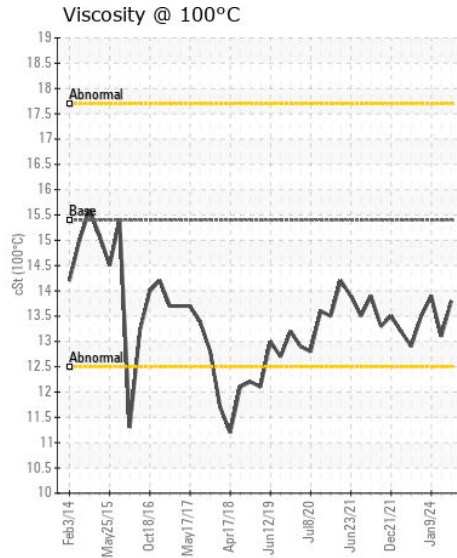
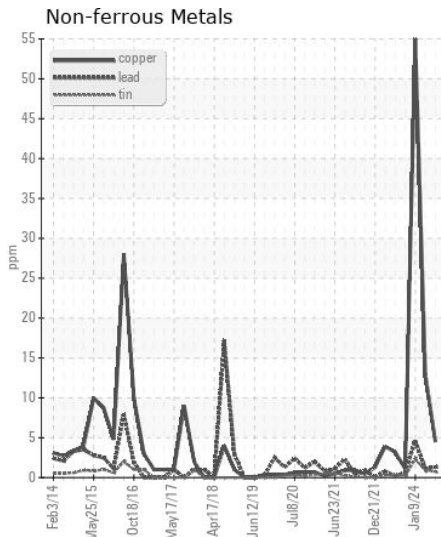
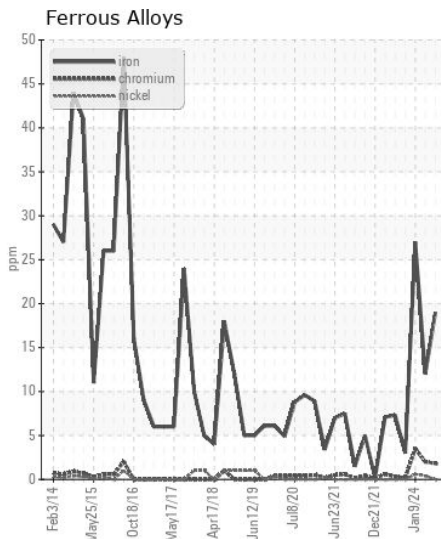
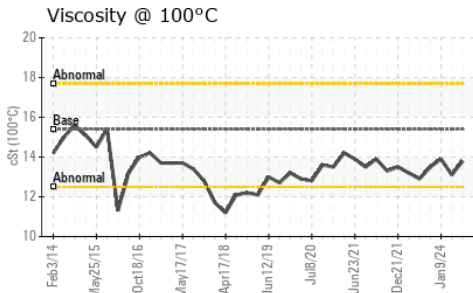
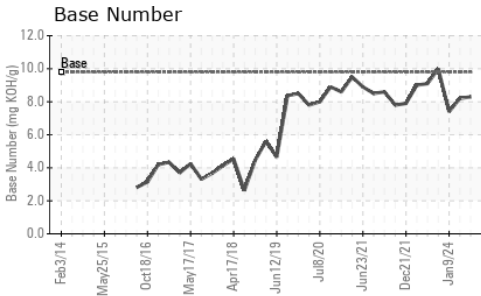
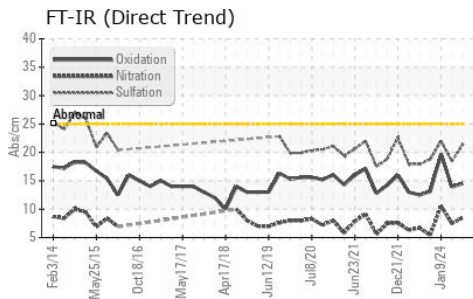
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>35	<b>12</b>	18	55
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	1	0
Fuel		WC Method	>3.0	<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	>7.5	<b>1.1</b>	0.4	0.6
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.5</b>	7.5	10.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>21.3</b>	18.4	22.0
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>&lt;1</b>	4	3
Boron	ppm	ASTM D5185m	0	<b>13</b>	17	25
Barium	ppm	ASTM D5185m	0	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m	60	<b>59</b>	62	53
Manganese	ppm	ASTM D5185m	0	<b>0</b>	<1	2
Magnesium	ppm	ASTM D5185m	1010	<b>685</b>	700	788
Calcium	ppm	ASTM D5185m	1070	<b>1487</b>	1306	1240
Phosphorus	ppm	ASTM D5185m	1150	<b>918</b>	953	789
Zinc	ppm	ASTM D5185m	1270	<b>1186</b>	1182	1014
Sulfur	ppm	ASTM D5185m	2060	<b>2902</b>	3345	2352
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>14.5</b>	13.9	19.7
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>8.3</b>	8.2	7.4
Visc @ 100°C	cSt	ASTM D445	15.4	<b>13.8</b>	13.1	13.9



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0124232  
**Lab Number** : 06235542  
**Unique Number** : 11124376  
**Test Package** : FLEET

**Received** : 15 Jul 2024  
**Tested** : 15 Jul 2024  
**Diagnosed** : 15 Jul 2024 - Wes Davis

**GFL Environmental - 002 - Vance-Granville**  
 241 Vanco Mill Rd  
 Henderson, NC  
 US 27537

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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)