



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

Machine Id  
**2518**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 15W40 (9 GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PCA0101769</b>	PCA0101730	PCA0095838
Sample Date		Client Info		<b>09 Jan 2024</b>	05 Sep 2023	07 Aug 2023
Machine Age	hrs	Client Info		<b>8838</b>	8232	7911
Oil Age	hrs	Client Info		<b>606</b>	649	649
Filter Age	hrs	Client Info		<b>606</b>	649	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	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>165	<b>10</b>	19	43
Chromium	ppm	ASTM D5185m	>5	<b>&lt;1</b>	<1	1
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>4</b>	0	1
Lead	ppm	ASTM D5185m	>150	<b>2</b>	1	3
Copper	ppm	ASTM D5185m	>90	<b>1</b>	2	<1
Tin	ppm	ASTM D5185m	>5	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

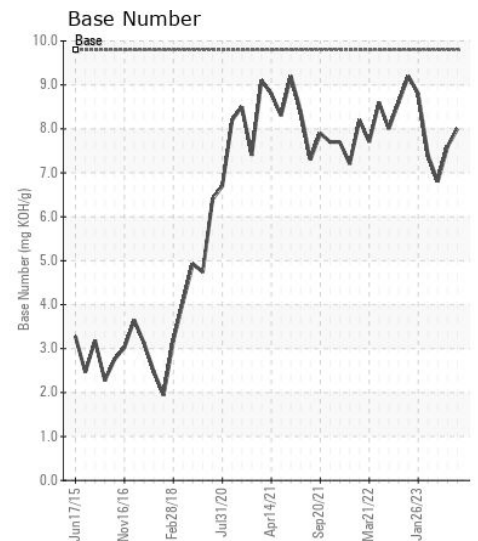
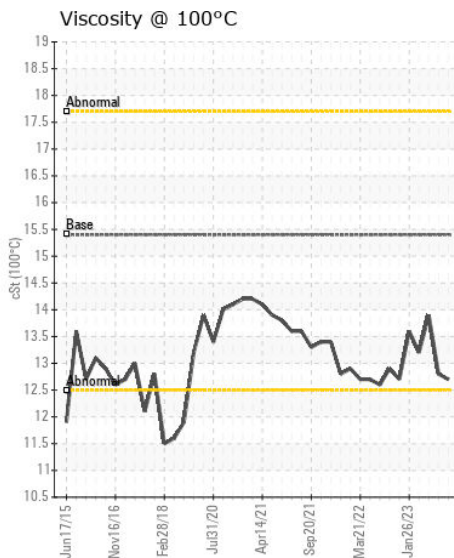
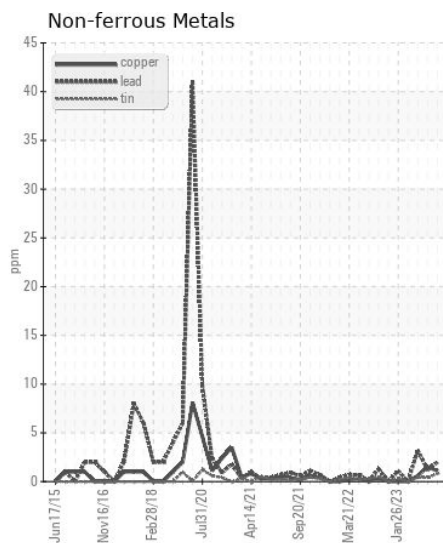
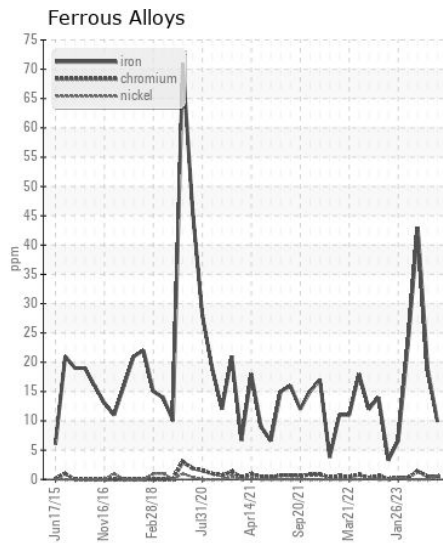
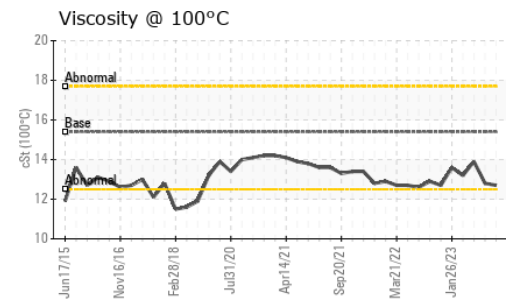
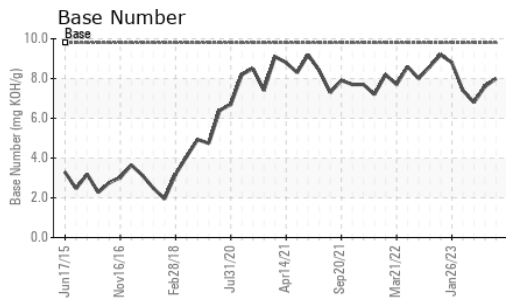
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>35	<b>10</b>	14	16
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	4	4
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>0.6</b>	0.5	1.6
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.3</b>	7.8	12.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>19.0</b>	19.0	25.2
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>	7	11
Boron	ppm	ASTM D5185m	0	<b>13</b>	18	14
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	60	<b>68</b>	77	71
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	1010	<b>836</b>	925	945
Calcium	ppm	ASTM D5185m	1070	<b>1095</b>	1397	1256
Phosphorus	ppm	ASTM D5185m	1150	<b>958</b>	1027	1082
Zinc	ppm	ASTM D5185m	1270	<b>1182</b>	1257	1330
Sulfur	ppm	ASTM D5185m	2060	<b>2887</b>	3678	3676
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>13.8</b>	13.9	20.5
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>8.0</b>	7.6	6.8
Visc @ 100°C	cSt	ASTM D445	15.4	<b>12.7</b>	12.8	13.9



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0101769 **Received** : 11 Jan 2024  
**Lab Number** : 06057875 **Diagnosed** : 12 Jan 2024  
**Unique Number** : 10829257 **Diagnostician** : Wes Davis  
**Test Package** : FLEET

**GFL Environmental - 002 - Vance-Granville**  
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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)