



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

Machine Id  
**726042**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 15W40 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0092143</b>	GFL0084657	GFL0084692
Sample Date		Client Info		<b>26 Jan 2024</b>	02 Nov 2023	08 Jun 2023
Machine Age	hrs	Client Info		<b>21178</b>	0	201387
Oil Age	hrs	Client Info		<b>33814</b>	0	0
Filter Age	hrs	Client Info		<b>33814</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Not Changd
Filter Changed		Client Info		<b>Changed</b>	Changed	Not Changd
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>110	<b>42</b>	5	15
Chromium	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>2	<b>1</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>6</b>	2	2
Lead	ppm	ASTM D5185m	>45	<b>9</b>	1	<1
Copper	ppm	ASTM D5185m	>85	<b>33</b>	<1	2
Tin	ppm	ASTM D5185m	>4	<b>2</b>	<1	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

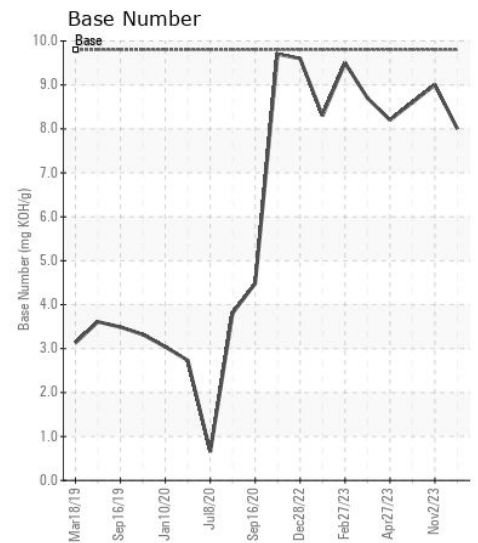
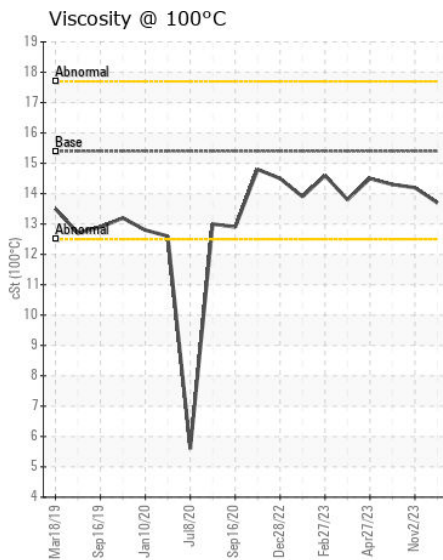
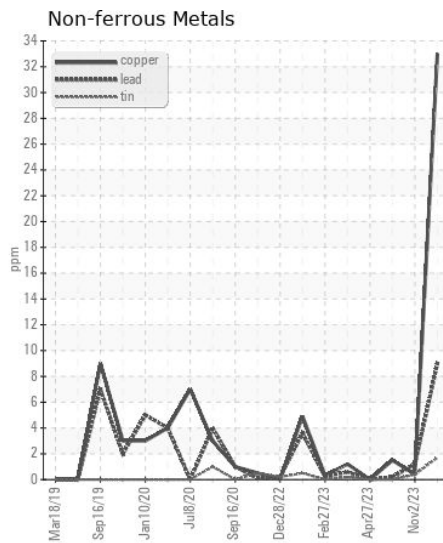
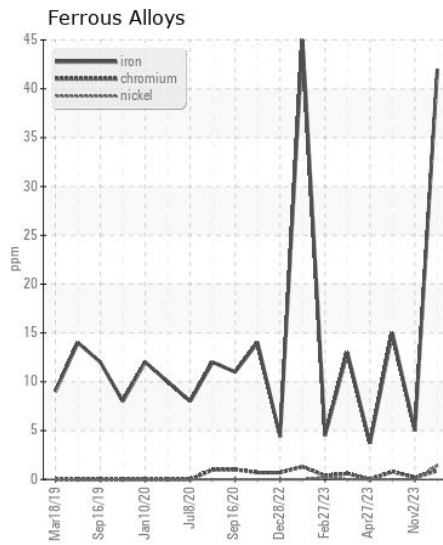
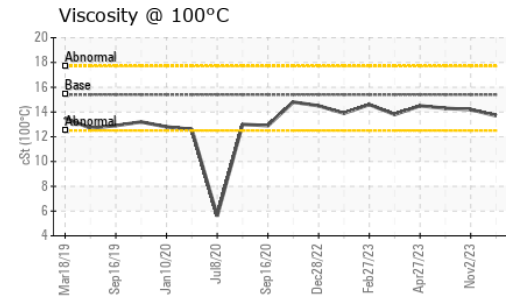
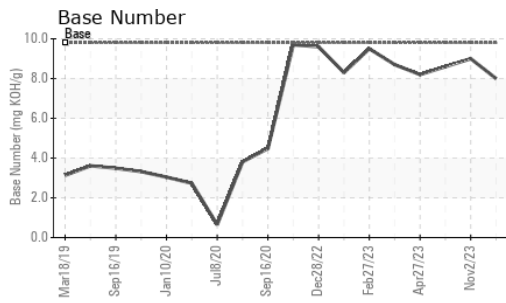
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>30	<b>8</b>	4	5
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	1	8
Fuel		WC Method	>5	<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	>3	<b>0.5</b>	0.3	0.9
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.3</b>	5.9	8.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>19.4</b>	18.7	21.7
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>4</b>	4	7
Boron	ppm	ASTM D5185m	0	<b>3</b>	5	2
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	60	<b>56</b>	64	60
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	1010	<b>882</b>	1061	1011
Calcium	ppm	ASTM D5185m	1070	<b>986</b>	1155	1126
Phosphorus	ppm	ASTM D5185m	1150	<b>957</b>	1177	1079
Zinc	ppm	ASTM D5185m	1270	<b>1219</b>	1453	1359
Sulfur	ppm	ASTM D5185m	2060	<b>2855</b>	3603	3872
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>14.6</b>	13.8	17.6
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>8.0</b>	9.0	8.6
Visc @ 100°C	cSt	ASTM D445	15.4	<b>13.7</b>	14.2	14.3



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0092143 **Received** : 30 Jan 2024  
**Lab Number** : 06074436 **Diagnosed** : 31 Jan 2024  
**Unique Number** : 10856527 **Diagnostician** : Wes Davis  
**Test Package** : FLEET

**GFL Environmental - 856 - Houston South**  
 8515 Highway 6 South  
 Houston, TX  
 US 77083  
 Contact: Apolinar Zacarias  
 pzacariascano@gflenv.com

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)

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F: