



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

Machine Id  
**10531**

Component  
**Diesel Engine**

Fluid  
**PETRO CANADA DURON SHP 15W40 (11 GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0074614</b>	GFL0092492	GFL0083635
Sample Date		Client Info		<b>12 Jan 2024</b>	05 Sep 2023	29 Jun 2023
Machine Age	hrs	Client Info		<b>23294</b>	22778	22334
Oil Age	hrs	Client Info		<b>194</b>	0	146
Filter Age	hrs	Client Info		<b>194</b>	0	146
Oil Changed		Client Info		<b>Not Changd</b>	Changed	Not Changd
Filter Changed		Client Info		<b>Not Changd</b>	Changed	Not Changd
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>75	<b>17</b>	46	13
Chromium	ppm	ASTM D5185m	>5	<b>&lt;1</b>	2	<1
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>15	<b>3</b>	4	2
Lead	ppm	ASTM D5185m	>25	<b>&lt;1</b>	1	<1
Copper	ppm	ASTM D5185m	>100	<b>12</b>	1	<1
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

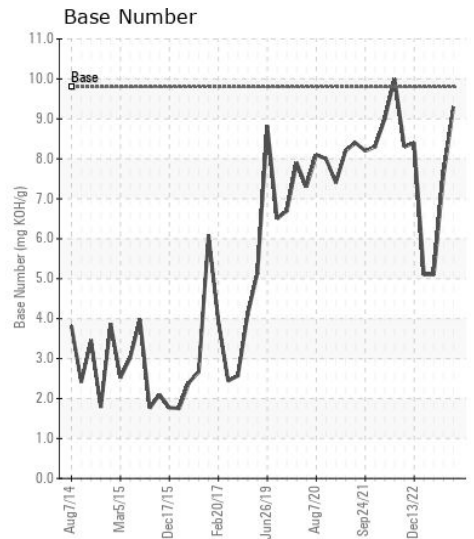
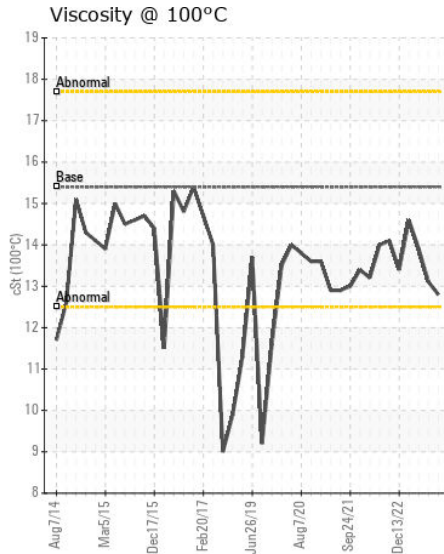
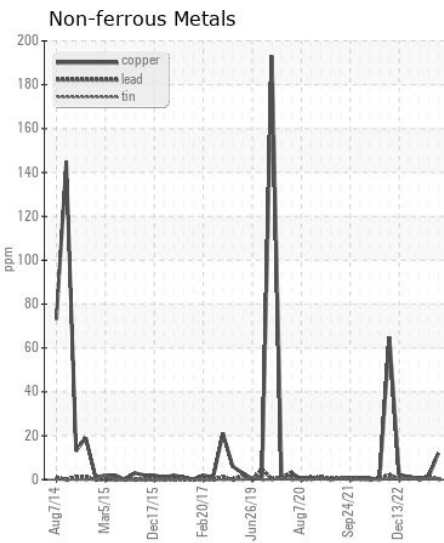
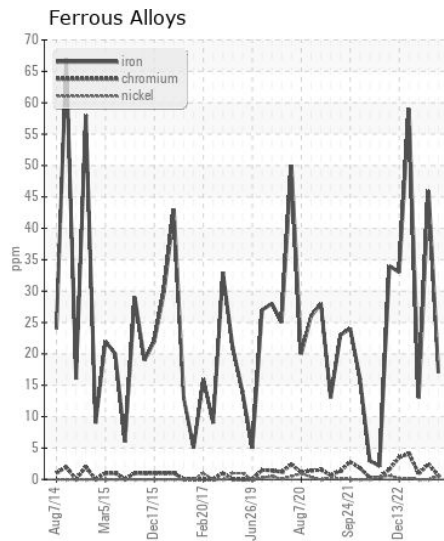
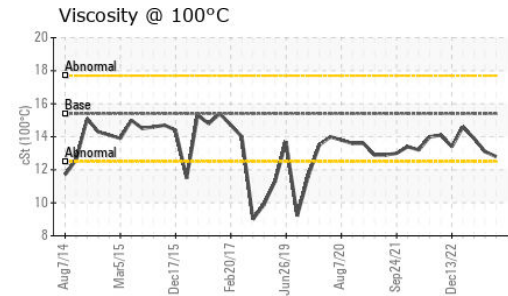
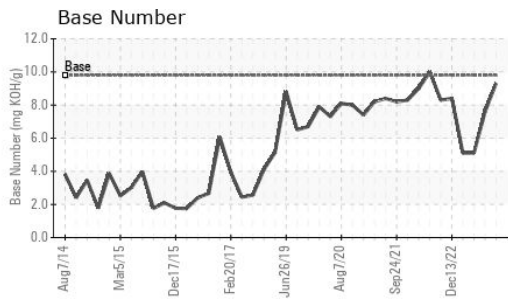
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>9</b>	6	3
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	3	2
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	>6	<b>0.4</b>	1.8	0.6
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.0</b>	11.9	12.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>21.1</b>	22.4	24.8
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 acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>4</b>	38	5
Boron	ppm	ASTM D5185m	0	<b>59</b>	6	3
Barium	ppm	ASTM D5185m	0	<b>4</b>	0	2
Molybdenum	ppm	ASTM D5185m	60	<b>53</b>	64	66
Manganese	ppm	ASTM D5185m	0	<b>1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	1010	<b>514</b>	942	816
Calcium	ppm	ASTM D5185m	1070	<b>1473</b>	1137	1093
Phosphorus	ppm	ASTM D5185m	1150	<b>760</b>	1014	979
Zinc	ppm	ASTM D5185m	1270	<b>897</b>	1274	1125
Sulfur	ppm	ASTM D5185m	2060	<b>2618</b>	3045	2958
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>18.0</b>	15.3	25.5
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>9.3</b>	7.6	5.1
Visc @ 100°C	cSt	ASTM D445	15.4	<b>12.8</b>	13.1	13.9



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0074614 **Received** : 17 Jan 2024  
**Lab Number** : 06063355 **Diagnosed** : 19 Jan 2024  
**Unique Number** : 10834737 **Diagnostician** : Don Baldrige  
**Test Package** : FLEET

**GFL Environmental - 095 - Atlanta West**  
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 Douglasville, GA  
 US 30127-1332  
 Contact: Darrell Welch  
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 T: (800)207-6618  
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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)