



Machine Id  
**724010-515**  
 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>GFL0100017</b>	GFL0115447	GFL0100048
Sample Date		Client Info		<b>10 Jun 2024</b>	29 Feb 2024	04 Dec 2023
Machine Age	hrs	Client Info		<b>37054</b>	36945	36945
Oil Age	hrs	Client Info		<b>500</b>	36484	1
Filter Age	hrs	Client Info		<b>500</b>	36484	1
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Sample Status				<b>ATTENTION</b>	ABNORMAL	ABNORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>28</b>	▲ 137	▲ 118
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	2	2
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	2	1
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>2</b>	5	3
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185m	>330	<b>1</b>	2	2
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	0	0
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**

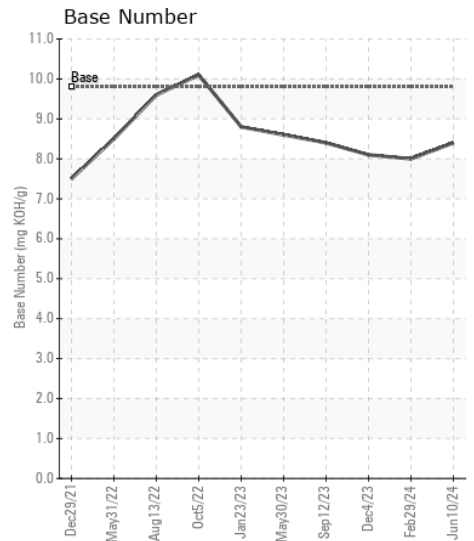
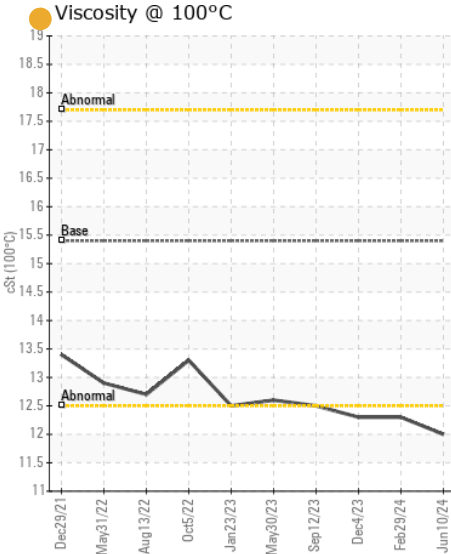
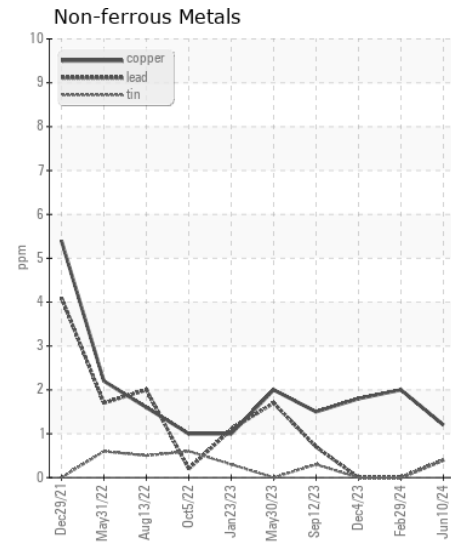
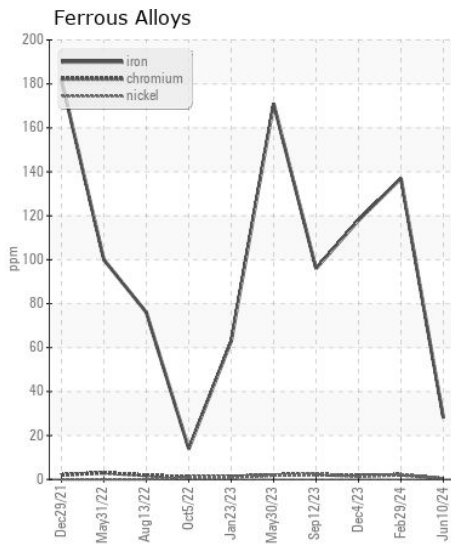
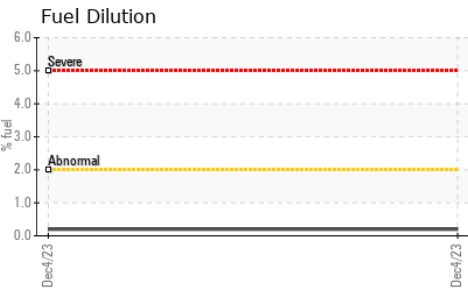
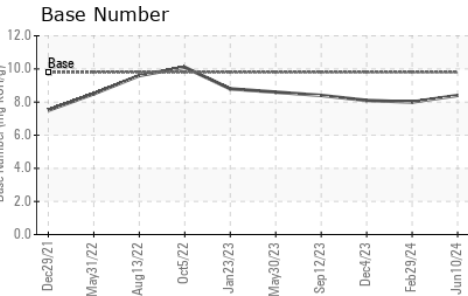
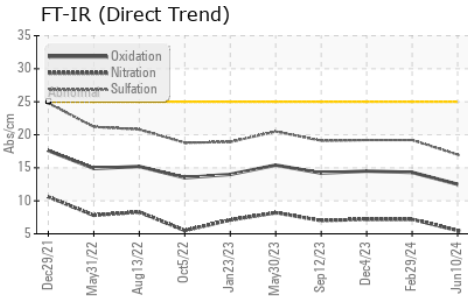
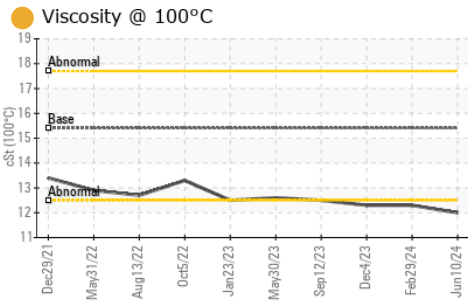
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>6</b>	6	6
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	0	2
Fuel	%	ASTM D3524	>2.0	<b>&lt;1.0</b>	<1.0	0.2
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.3</b>	0.9	0.9
Nitration	Abs/cm	*ASTM D7624	>20	<b>5.5</b>	7.2	7.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>17.0</b>	19.2	19.2
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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Sodium	ppm	ASTM D5185m		<b>12</b>	2	0
Boron	ppm	ASTM D5185m	0	<b>16</b>	11	11
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	3
Molybdenum	ppm	ASTM D5185m	60	<b>68</b>	70	71
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	1	0
Magnesium	ppm	ASTM D5185m	1010	<b>907</b>	883	823
Calcium	ppm	ASTM D5185m	1070	<b>1135</b>	1151	1070
Phosphorus	ppm	ASTM D5185m	1150	<b>1062</b>	939	941
Zinc	ppm	ASTM D5185m	1270	<b>1217</b>	1122	1117
Sulfur	ppm	ASTM D5185m	2060	<b>3520</b>	2738	3027
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>12.5</b>	14.3	14.5
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>8.4</b>	8.0	8.1
Visc @ 100°C	cSt	ASTM D445	15.4	● <b>12.0</b>	● 12.3	● 12.3



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0100017  
**Lab Number** : 06211334  
**Unique Number** : 11084198  
**Test Package** : FLEET ( Additional Tests: FuelDilution )

**GFL Environmental - 626 - Cadillac Hauling**  
 1501 Ron Wilson St  
 Cadillac, MI  
 US 49601  
 Contact: GARY BREWER  
 gbrewerjr@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: