



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

Machine Id  
**912067**  
 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>GFL0082684</b>	GFL0075014	GFL0066007
Sample Date		Client Info		<b>14 Jun 2023</b>	11 May 2023	23 Jan 2023
Machine Age	hrs	Client Info		<b>1769</b>	1569	1434
Oil Age	hrs	Client Info		<b>1769</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Not Changd	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>24</b>	35	4
Chromium	ppm	ASTM D5185m	>4	<b>&lt;1</b>	1	0
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m	>25	<b>8</b>	28	<1
Lead	ppm	ASTM D5185m	>45	<b>0</b>	1	<1
Copper	ppm	ASTM D5185m	>85	<b>2</b>	2	<1
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

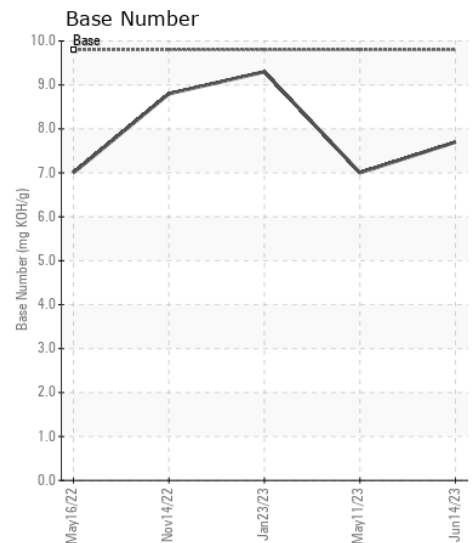
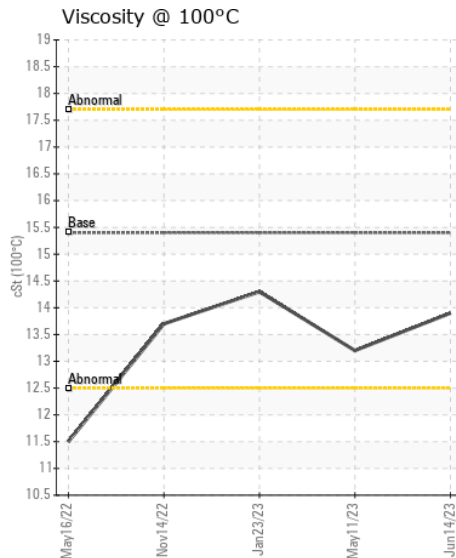
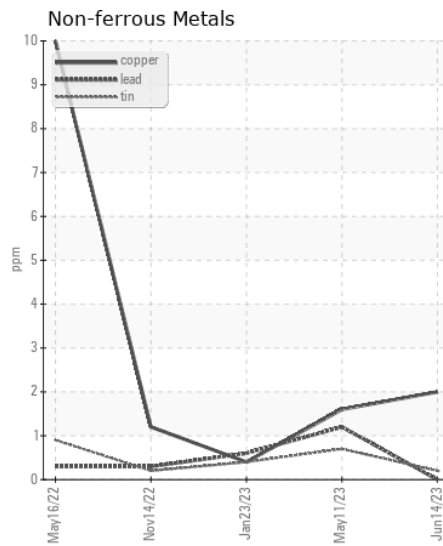
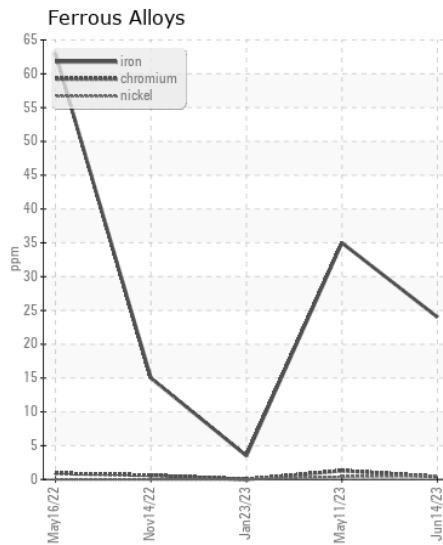
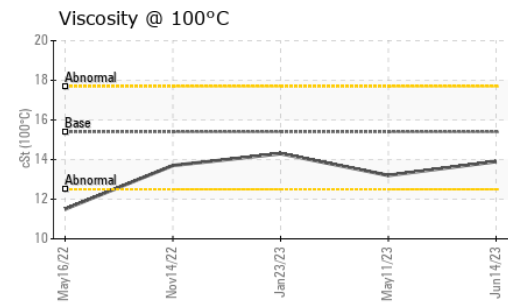
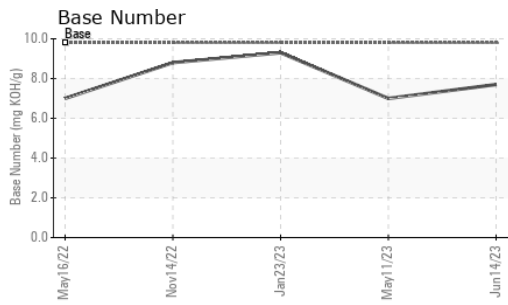
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>30	<b>4</b>	15	10
Potassium	ppm	ASTM D5185m	>20	<b>9</b>	48	4
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>0.3</b>	0.5	0.1
Nitration	Abs/cm	*ASTM D7624	>20	<b>6.8</b>	10.2	4.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>20.5</b>	22.9	17.7
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>&lt;1</b>	6	2
Boron	ppm	ASTM D5185m	0	<b>3</b>	4	2
Barium	ppm	ASTM D5185m	0	<b>2</b>	0	0
Molybdenum	ppm	ASTM D5185m	60	<b>62</b>	58	58
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	1	0
Magnesium	ppm	ASTM D5185m	1010	<b>936</b>	1058	1001
Calcium	ppm	ASTM D5185m	1070	<b>1099</b>	1247	1180
Phosphorus	ppm	ASTM D5185m	1150	<b>1029</b>	1050	1053
Zinc	ppm	ASTM D5185m	1270	<b>1232</b>	1291	1293
Sulfur	ppm	ASTM D5185m	2060	<b>3398</b>	3377	3767
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>16.8</b>	19.4	13.3
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>7.7</b>	7.0	9.3
Visc @ 100°C	cSt	ASTM D445	15.4	<b>13.9</b>	13.2	14.3



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0082684 **Received** : 21 Jun 2023  
**Lab Number** : 05880195 **Diagnosed** : 23 Jun 2023  
**Unique Number** : 10525298 **Diagnostician** : Don Baldrige  
**Test Package** : FLEET

**GFL Environmental - 814 - Little Rock Hauling**  
 4005 Hwy 161 N.  
 Little Rock, AR  
 US 72117  
 Contact: Brad Koenig  
 bkoenig@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: