



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

Area  
**(TX241091)**

Machine Id  
**8122**

Component  
**Diesel Engine**

Fluid  
**PETRO CANADA DURON SHP 15W40 (8 GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0098061</b>	GFL0060050	GFL0035448
Sample Date		Client Info		<b>29 Jan 2024</b>	06 Jul 2023	15 Sep 2021
Machine Age	hrs	Client Info		<b>5636</b>	5636	5636
Oil Age	hrs	Client Info		<b>5593</b>	5593	5636
Filter Age	hrs	Client Info		<b>55</b>	55	43
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>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>165	<b>18</b>	12	16
Chromium	ppm	ASTM D5185m	>5	<b>1</b>	<1	<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>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>20	<b>2</b>	<1	2
Lead	ppm	ASTM D5185m	>150	<b>2</b>	0	<1
Copper	ppm	ASTM D5185m	>90	<b>3</b>	<1	<1
Tin	ppm	ASTM D5185m	>5	<b>1</b>	0	0
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**

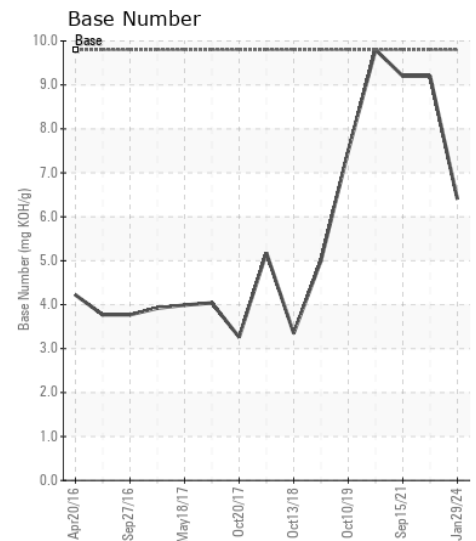
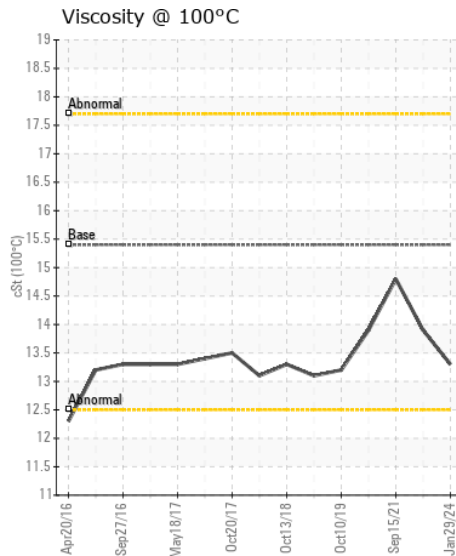
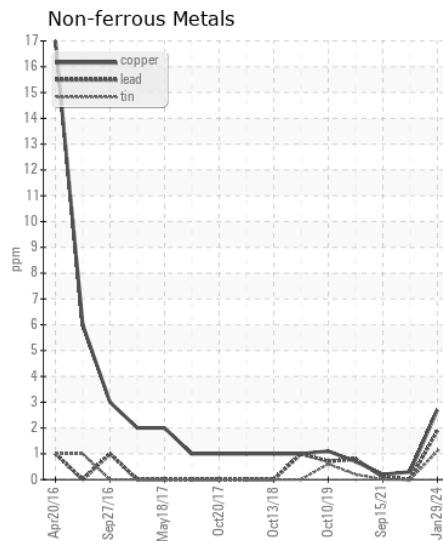
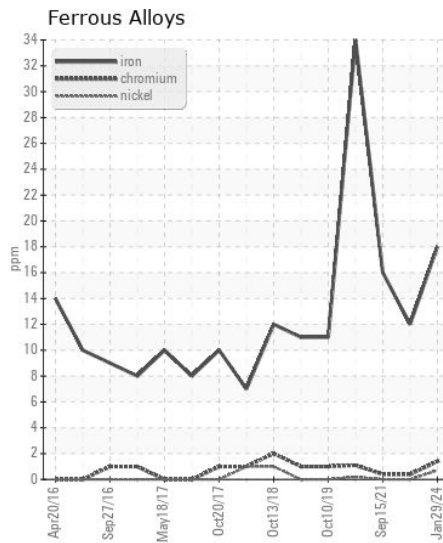
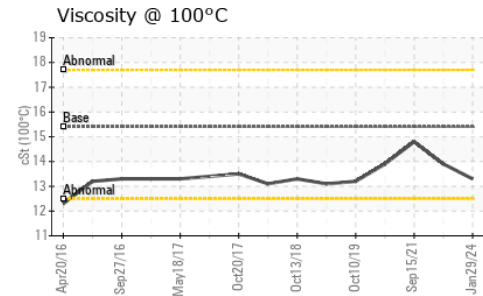
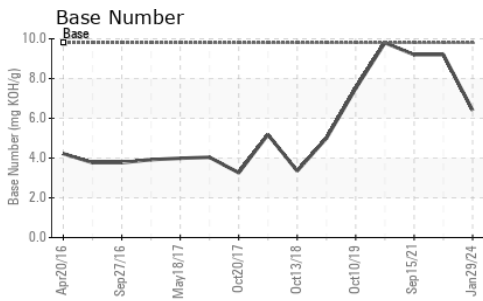
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>35	<b>6</b>	3	1
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	2	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>0.2</b>	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.7</b>	7.5	5.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>19.9</b>	18.7	17.4
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>3</b>	4	3
Boron	ppm	ASTM D5185m	0	<b>6</b>	21	30
Barium	ppm	ASTM D5185m	0	<b>14</b>	0	0
Molybdenum	ppm	ASTM D5185m	60	<b>62</b>	58	62
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185m	1010	<b>924</b>	936	894
Calcium	ppm	ASTM D5185m	1070	<b>1033</b>	1129	1038
Phosphorus	ppm	ASTM D5185m	1150	<b>970</b>	989	973
Zinc	ppm	ASTM D5185m	1270	<b>1202</b>	1181	1104
Sulfur	ppm	ASTM D5185m	2060	<b>3131</b>	3462	2615
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>17.8</b>	14.7	13.1
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>6.4</b>	9.2	9.2
Visc @ 100°C	cSt	ASTM D445	15.4	<b>13.3</b>	13.9	14.8



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
 Sample No. : GFL0098061  
 Lab Number : 06085670  
 Unique Number : 10873115  
 Test Package : FLEET

Received : 12 Feb 2024  
 Tested : 12 Feb 2024  
 Diagnosed : 12 Feb 2024 - Wes Davis

**GFL Environmental - 045 - Tidewater**  
 3821 Cook Blvd.  
 Chesapeake, VA  
 US 23323  
 Contact: ELVIN RODRIGUEZ  
 elvinrodriguez@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: