



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



Machine Id  
**834048**  
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>GFL0102478</b>	GFL0102522	GFL0098664
Sample Date		Client Info		<b>22 Dec 2023</b>	04 Dec 2023	15 Nov 2023
Machine Age	hrs	Client Info		<b>974</b>	848	765
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
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**

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>80	<b>23</b>	24	17
Chromium	ppm	ASTM D5185m	>5	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	1	1
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	0
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	<1
Aluminum	ppm	ASTM D5185m	>30	<b>5</b>	3	4
Lead	ppm	ASTM D5185m	>30	<b>2</b>	1	<1
Copper	ppm	ASTM D5185m	>150	<b>6</b>	7	5
Tin	ppm	ASTM D5185m	>5	<b>2</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**

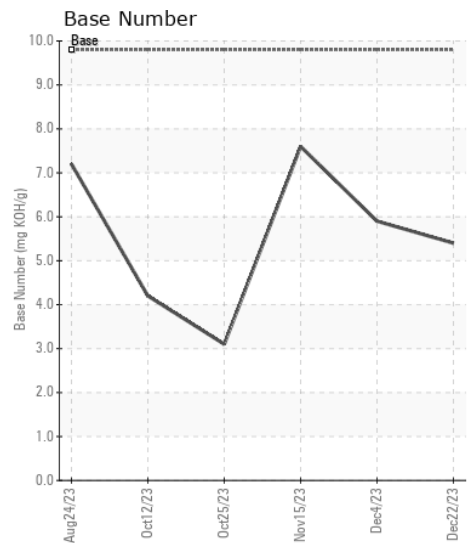
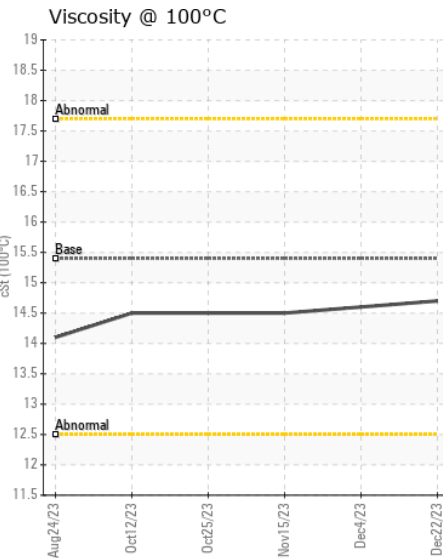
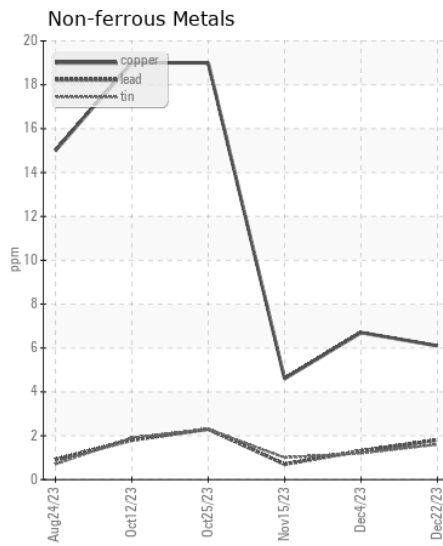
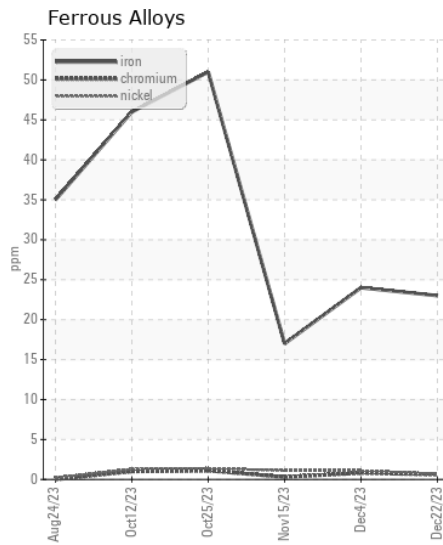
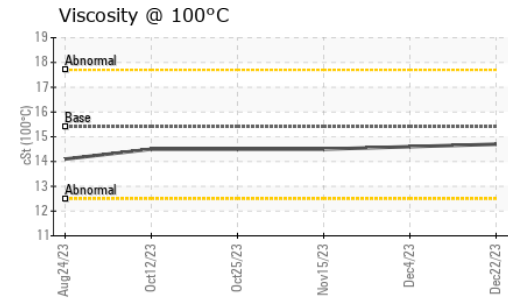
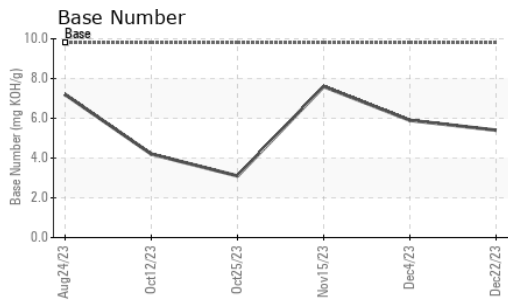
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>13</b>	13	11
Potassium	ppm	ASTM D5185m	>20	<b>5</b>	7	5
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>0.2</b>	0	0
Nitration	Abs/cm	*ASTM D7624	>20	<b>10.2</b>	10.4	8.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>20.5</b>	20.3	20.5
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>	<1	4
Boron	ppm	ASTM D5185m	0	<b>11</b>	16	26
Barium	ppm	ASTM D5185m	0	<b>0</b>	14	0
Molybdenum	ppm	ASTM D5185m	60	<b>53</b>	51	44
Manganese	ppm	ASTM D5185m	0	<b>5</b>	5	4
Magnesium	ppm	ASTM D5185m	1010	<b>668</b>	599	595
Calcium	ppm	ASTM D5185m	1070	<b>1588</b>	1462	1395
Phosphorus	ppm	ASTM D5185m	1150	<b>799</b>	760	811
Zinc	ppm	ASTM D5185m	1270	<b>1068</b>	911	889
Sulfur	ppm	ASTM D5185m	2060	<b>2583</b>	2554	2329
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>17.0</b>	18.2	17.7
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>5.4</b>	5.9	7.6
Visc @ 100°C	cSt	ASTM D445	15.4	<b>14.7</b>	14.6	14.5



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0102478 **Received** : 08 Jan 2024  
**Lab Number** : 06054644 **Diagnosed** : 09 Jan 2024  
**Unique Number** : 10820593 **Diagnostician** : Wes Davis  
**Test Package** : FLEET

**GFL Environmental - 837 - Harrison TS**  
 22820 S State Route 291  
 Harrisonville, MO  
 US 64701  
 Contact: BRYAN SWANSON  
 bryanswanson@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: