



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

Machine Id  
**914030**  
 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>GFL0109273</b>	GFL0093543	GFL0048370
Sample Date		Client Info		<b>08 Feb 2024</b>	16 Jan 2024	10 Jan 2024
Machine Age	hrs	Client Info		<b>1489</b>	1337	1206
Oil Age	hrs	Client Info		<b>329</b>	177	46
Filter Age	hrs	Client Info		<b>329</b>	177	46
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	>100	<b>5</b>	1	3
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	0
Nickel	ppm	ASTM D5185m	>4	<b>4</b>	2	2
Titanium	ppm	ASTM D5185m		<b>16</b>	17	16
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	<1	0
Aluminum	ppm	ASTM D5185m	>20	<b>1</b>	1	0
Lead	ppm	ASTM D5185m	>40	<b>1</b>	0	<1
Copper	ppm	ASTM D5185m	>330	<b>29</b>	28	26
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	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**

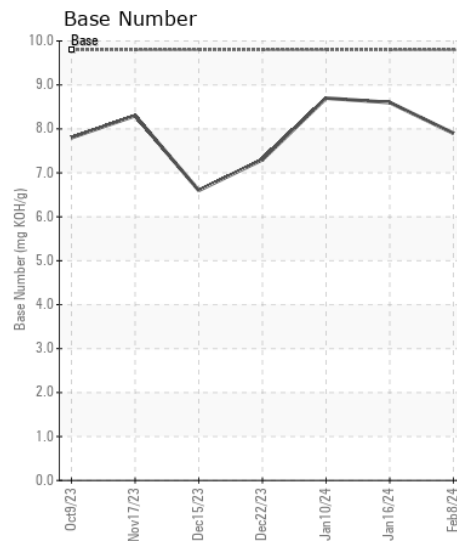
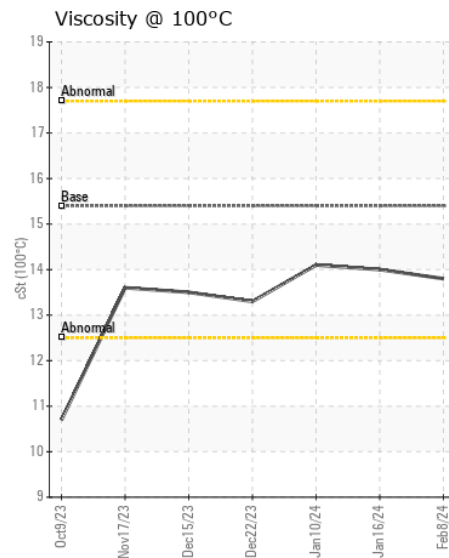
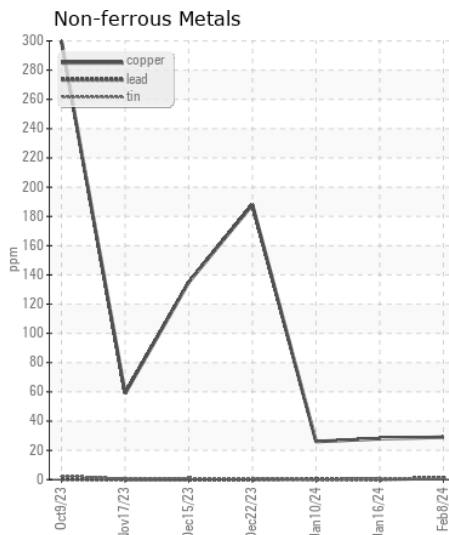
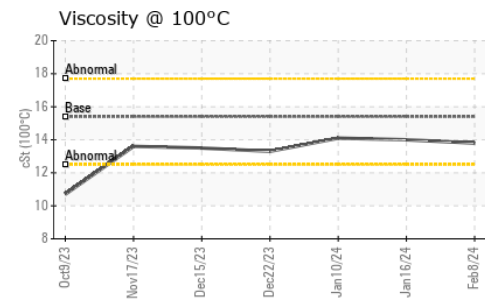
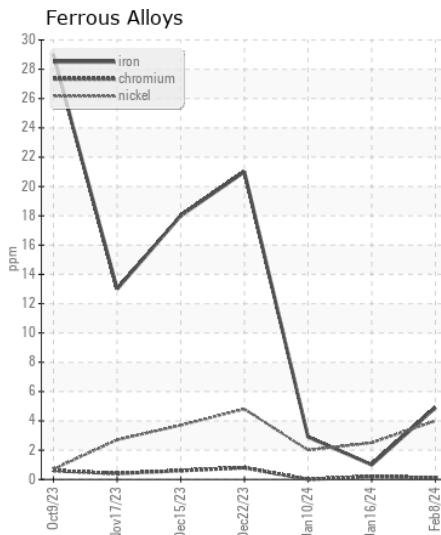
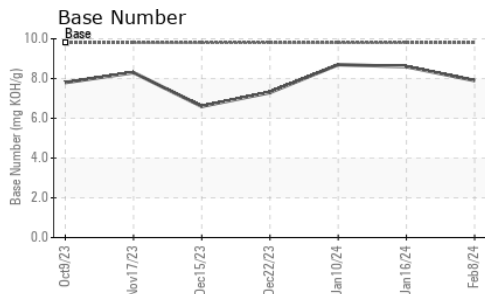
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>1</b>	4	3
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	0	2
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>	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.1</b>	6.0	5.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>19.1</b>	18.4	18.3
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>	<1	2
Boron	ppm	ASTM D5185m	0	<b>19</b>	20	24
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	60	<b>46</b>	46	45
Manganese	ppm	ASTM D5185m	0	<b>1</b>	1	0
Magnesium	ppm	ASTM D5185m	1010	<b>756</b>	791	832
Calcium	ppm	ASTM D5185m	1070	<b>1055</b>	1078	1132
Phosphorus	ppm	ASTM D5185m	1150	<b>920</b>	985	961
Zinc	ppm	ASTM D5185m	1270	<b>1112</b>	1142	1245
Sulfur	ppm	ASTM D5185m	2060	<b>2803</b>	2943	3109
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>14.8</b>	14.3	14.1
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>7.9</b>	8.6	8.7
Visc @ 100°C	cSt	ASTM D445	15.4	<b>13.8</b>	14.0	14.1



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0109273 **Received** : 09 Feb 2024  
**Lab Number** : 06084642 **Tested** : 12 Feb 2024  
**Unique Number** : 10872087 **Diagnosed** : 12 Feb 2024 - Wes Davis  
**Test Package** : FLEET

**GFL Environmental - 891 - Oklahoma City Hauling**  
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 Oklahoma City, OK  
 US 73128  
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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)