



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

Machine Id  
**829016-1067**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 15W40 (--- LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0100143</b>	GFL0090805	GFL0090818
Sample Date		Client Info		<b>12 Jan 2024</b>	27 Oct 2023	04 Oct 2023
Machine Age	hrs	Client Info		<b>87594</b>	12288	12119
Oil Age	hrs	Client Info		<b>87594</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	Changed	N/A
Filter Changed		Client Info		<b>N/A</b>	Changed	N/A
Sample Status				<b>NORMAL</b>	ABNORMAL	ABNORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>110	<b>5</b>	11	11
Chromium	ppm	ASTM D5185m	>4	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185m	>25	<b>&lt;1</b>	1	2
Lead	ppm	ASTM D5185m	>45	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>85	<b>2</b>	6	8
Tin	ppm	ASTM D5185m	>4	<b>0</b>	<1	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**

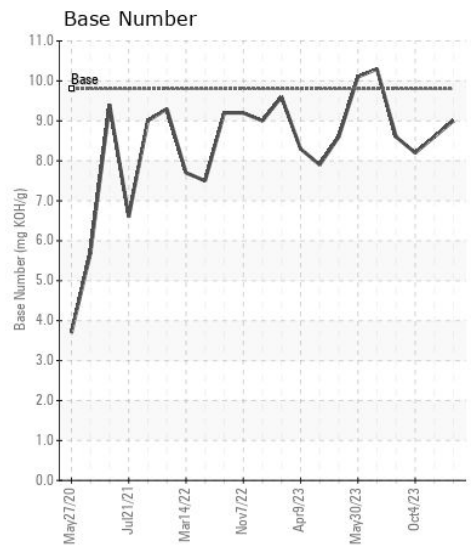
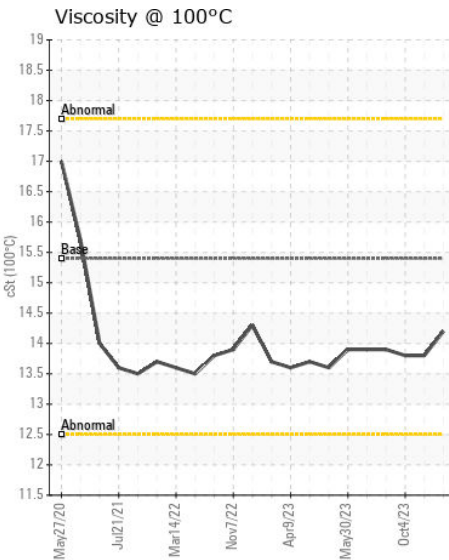
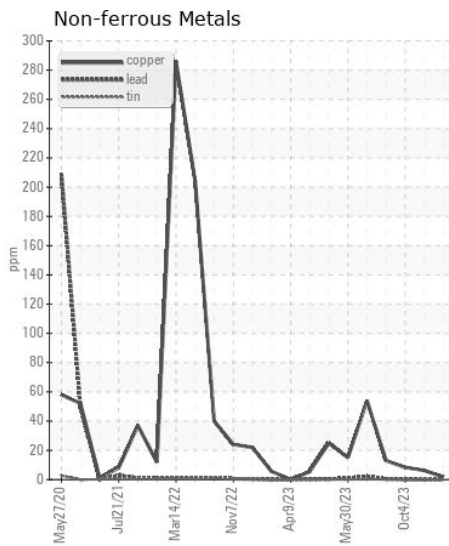
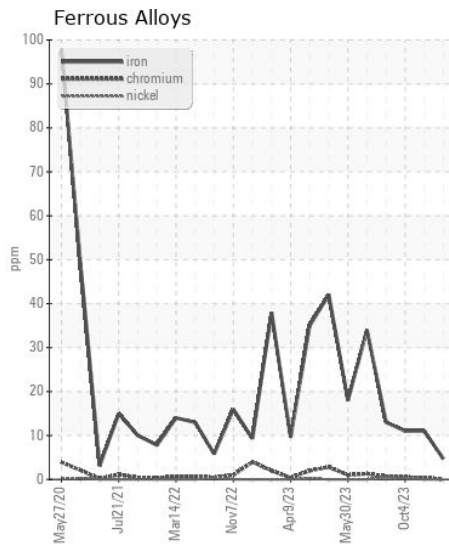
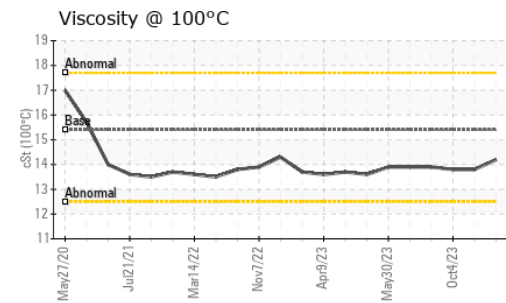
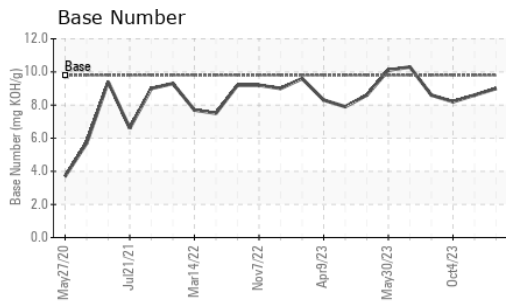
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>30	<b>8</b>	10	12
Potassium	ppm	ASTM D5185m	>20	<b>16</b>	▲ 187	▲ 232
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>0.1</b>	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	<b>5.0</b>	6.9	6.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>17.6</b>	19.4	18.8
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>	22	25
Boron	ppm	ASTM D5185m	0	<b>6</b>	8	0
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	60	<b>60</b>	76	87
Manganese	ppm	ASTM D5185m	0	<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185m	1010	<b>994</b>	904	1023
Calcium	ppm	ASTM D5185m	1070	<b>1138</b>	1012	1079
Phosphorus	ppm	ASTM D5185m	1150	<b>1128</b>	1016	1127
Zinc	ppm	ASTM D5185m	1270	<b>1273</b>	1219	1413
Sulfur	ppm	ASTM D5185m	2060	<b>3517</b>	2899	3294
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>13.1</b>	14.6	13.8
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>9.0</b>	8.6	8.2
Visc @ 100°C	cSt	ASTM D445	15.4	<b>14.2</b>	13.8	13.8



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0100143 **Received** : 17 Jan 2024  
**Lab Number** : 06063467 **Diagnosed** : 18 Jan 2024  
**Unique Number** : 10834849 **Diagnostician** : Wes Davis  
**Test Package** : FLEET

**GFL Environmental - 659 - Mechanicsville**  
 8280 RICHFOOD RD  
 Mechanicsville, VA  
 US 23116  
 Contact: Dwayne Oliver  
 dwayneoliver@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: