



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

Machine Id  
**913145**  
 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>GFL0078300</b>	GFL0099269	GFL0078294
Sample Date		Client Info		<b>20 Feb 2024</b>	29 Jan 2024	28 Nov 2023
Machine Age	hrs	Client Info		<b>2612</b>	2473	2288
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 Chngd</b>	Not Chngd	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>110	<b>7</b>	8	35
Chromium	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	1
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>3</b>	3	14
Lead	ppm	ASTM D5185m	>45	<b>0</b>	<1	0
Copper	ppm	ASTM D5185m	>85	<b>1</b>	2	5
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

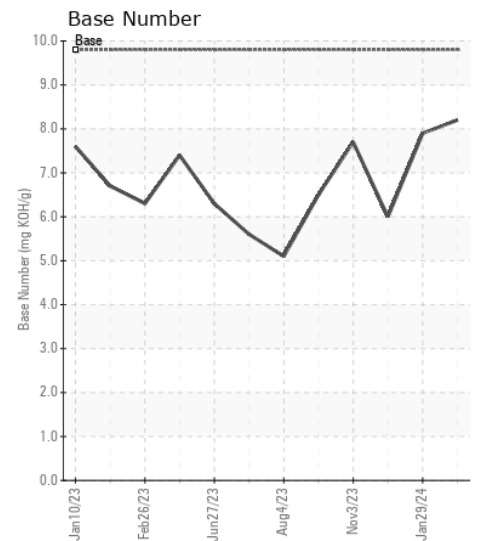
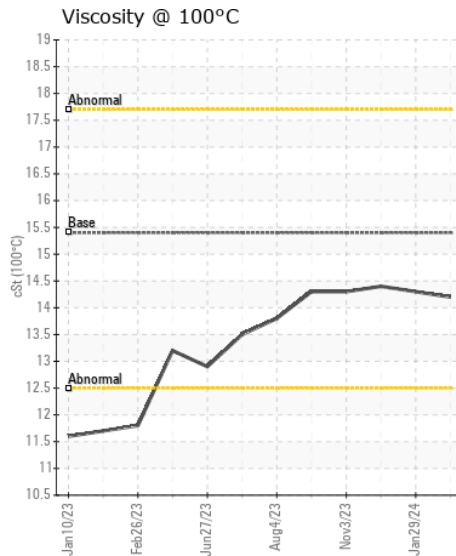
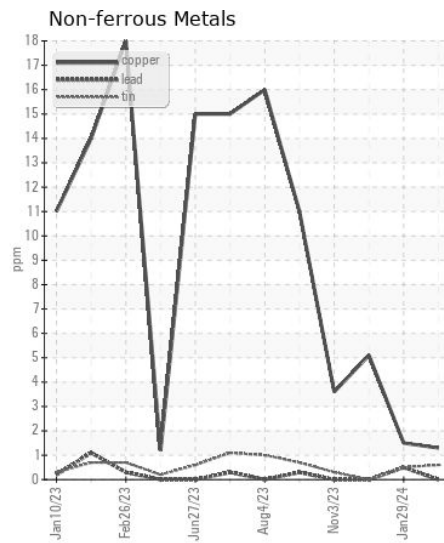
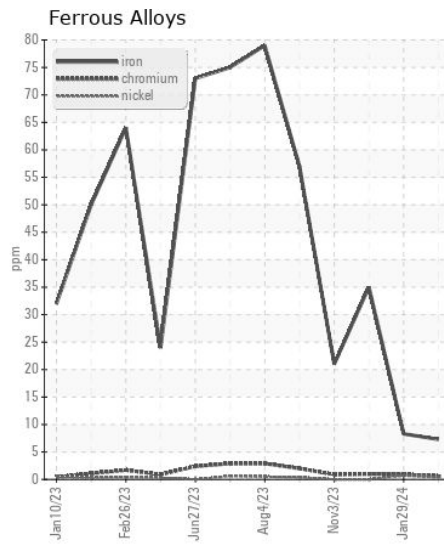
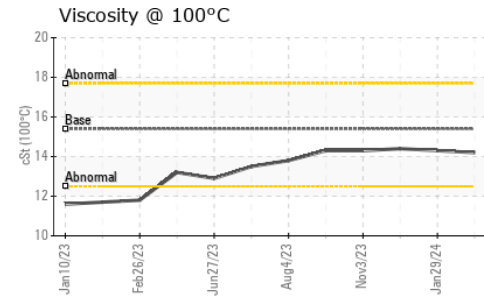
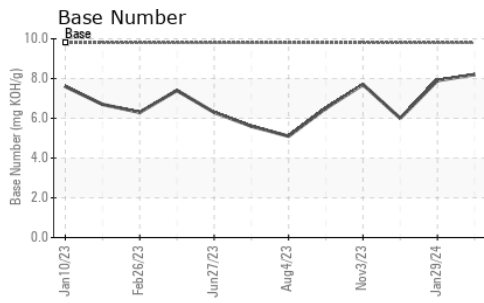
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>30	<b>6</b>	5	7
Potassium	ppm	ASTM D5185m	>20	<b>5</b>	6	28
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>	0.2	0.6
Nitration	Abs/cm	*ASTM D7624	>20	<b>6.7</b>	6.2	11.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>18.5</b>	18.5	22.8
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>0</b>	0	<1
Boron	ppm	ASTM D5185m	0	<b>6</b>	<1	<1
Barium	ppm	ASTM D5185m	0	<b>&lt;1</b>	0	3
Molybdenum	ppm	ASTM D5185m	60	<b>60</b>	57	73
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	<1	0
Magnesium	ppm	ASTM D5185m	1010	<b>893</b>	954	1118
Calcium	ppm	ASTM D5185m	1070	<b>1041</b>	993	1275
Phosphorus	ppm	ASTM D5185m	1150	<b>991</b>	909	1198
Zinc	ppm	ASTM D5185m	1270	<b>1148</b>	1194	1440
Sulfur	ppm	ASTM D5185m	2060	<b>3177</b>	2924	3444
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>14.6</b>	14.4	19.7
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>8.2</b>	7.9	6.0
Visc @ 100°C	cSt	ASTM D445	15.4	<b>14.2</b>	14.3	14.4



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0078300  
**Lab Number** : 06102319  
**Unique Number** : 10900549  
**Test Package** : FLEET

**Received** : 27 Feb 2024  
**Tested** : 28 Feb 2024  
**Diagnosed** : 28 Feb 2024 - Wes Davis

**GFL Environmental - 844 - Princeton Hauling**  
 10129 Highway 62 West  
 Princeton, KY  
 US 42445

Contact: ROBERT THIBAUT  
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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)

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