



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



Machine Id  
**926027**  
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>GFL0069926</b>	GFL0069937	GFL0059579
Sample Date		Client Info		<b>13 Mar 2024</b>	17 Jan 2023	20 Oct 2022
Machine Age	hrs	Client Info		<b>18548</b>	16524	15991
Oil Age	hrs	Client Info		<b>600</b>	0	15391
Filter Age	hrs	Client Info		<b>0</b>	0	15391
Oil Changed		Client Info		<b>Changed</b>	N/A	Changed
Filter Changed		Client Info		<b>Changed</b>	N/A	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>120	<b>21</b>	15	31
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>5	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>5</b>	2	4
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	1	4
Copper	ppm	ASTM D5185m	>330	<b>1</b>	<1	2
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	2
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

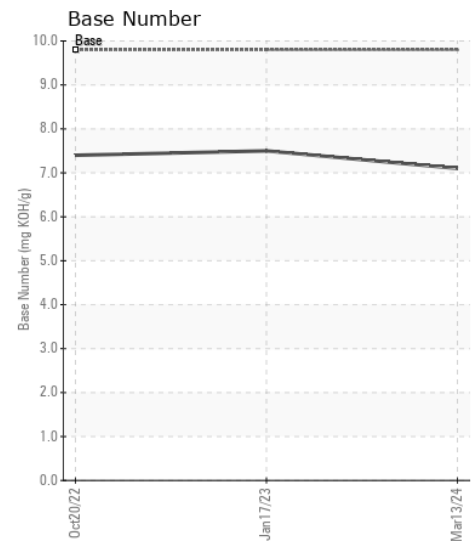
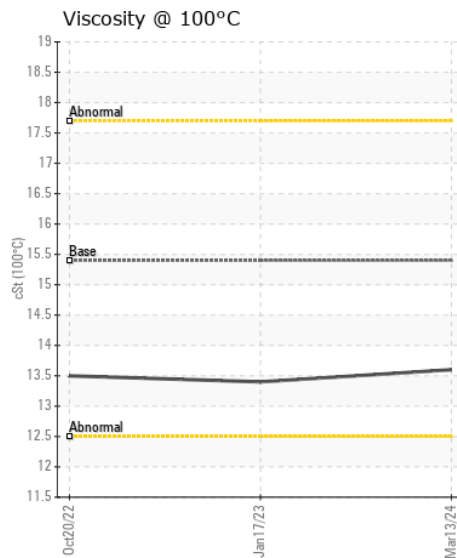
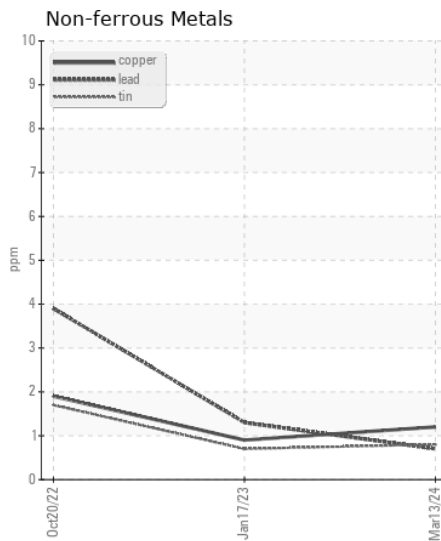
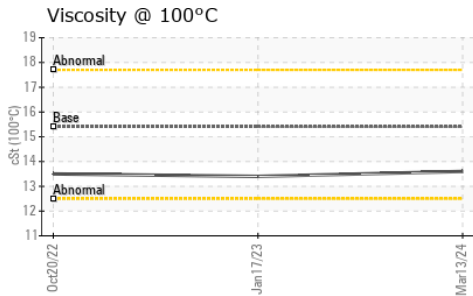
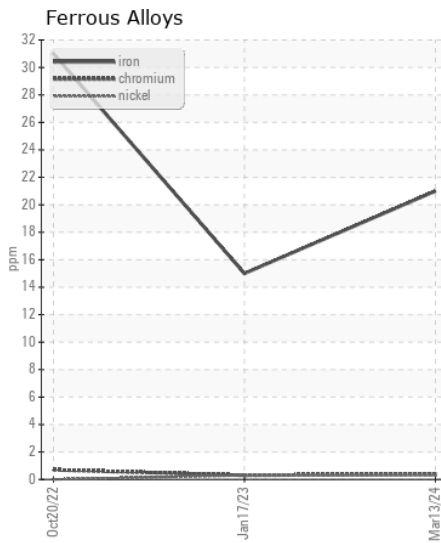
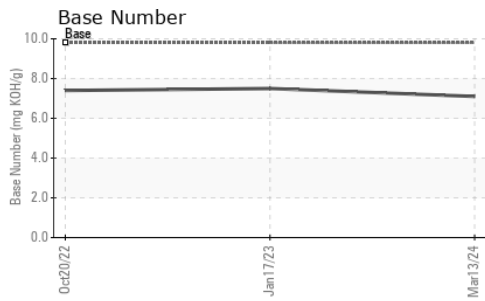
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>10</b>	4	7
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	<1	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	>4	<b>0.3</b>	0.4	0.6
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.6</b>	9.9	12.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>20.3</b>	21.9	27.0
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>8</b>	4	9
Boron	ppm	ASTM D5185m	0	<b>2</b>	11	28
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185m	60	<b>91</b>	54	49
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	1010	<b>1514</b>	830	566
Calcium	ppm	ASTM D5185m	1070	<b>1642</b>	1308	1888
Phosphorus	ppm	ASTM D5185m	1150	<b>1581</b>	871	810
Zinc	ppm	ASTM D5185m	1270	<b>1975</b>	1125	1040
Sulfur	ppm	ASTM D5185m	2060	<b>4417</b>	2888	2654
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>18.2</b>	20.5	22.5
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>7.1</b>	7.5	7.4
Visc @ 100°C	cSt	ASTM D445	15.4	<b>13.6</b>	13.4	13.5



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0069926  
**Lab Number** : 06125491  
**Unique Number** : 10939642  
**Test Package** : FLEET

**Received** : 21 Mar 2024  
**Tested** : 22 Mar 2024  
**Diagnosed** : 25 Mar 2024 - Don Baldrige

**GFL Environmental - 902 - Chilton HC**  
 428 High St  
 Chilton, WI  
 US 53014

Contact: Keith Mueller  
 keith.mueller@gflenv.com

T: (920)374-1404

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)

F: