



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

Area  
**(BB27195)**  
Machine Id  
**528008-1107**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 15W40 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor. ( Customer Sample Comment: Service completed )

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0094876</b>	GFL0094847	GFL0088264
Sample Date		Client Info		<b>04 Jan 2024</b>	01 Nov 2023	18 Aug 2023
Machine Age	hrs	Client Info		<b>14900</b>	14551	14071
Oil Age	hrs	Client Info		<b>14420</b>	483	798
Filter Age	hrs	Client Info		<b>14420</b>	483	798
Oil Changed		Client Info		<b>Changed</b>	Not Changd	Changed
Filter Changed		Client Info		<b>Changed</b>	Not Changd	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>76</b>	42	74
Chromium	ppm	ASTM D5185m	>20	<b>2</b>	2	3
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>15</b>	10	19
Lead	ppm	ASTM D5185m	>40	<b>5</b>	1	7
Copper	ppm	ASTM D5185m	>330	<b>1</b>	1	2
Tin	ppm	ASTM D5185m	>15	<b>1</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**

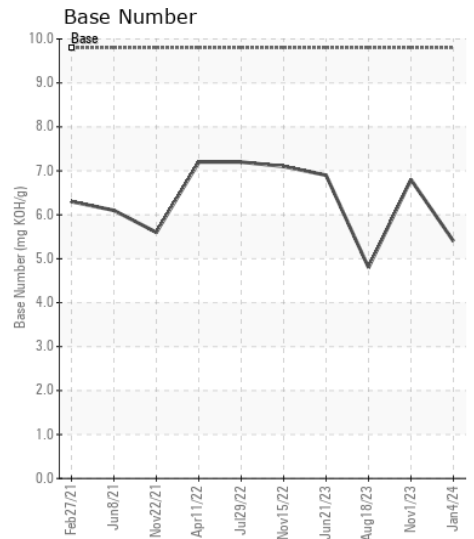
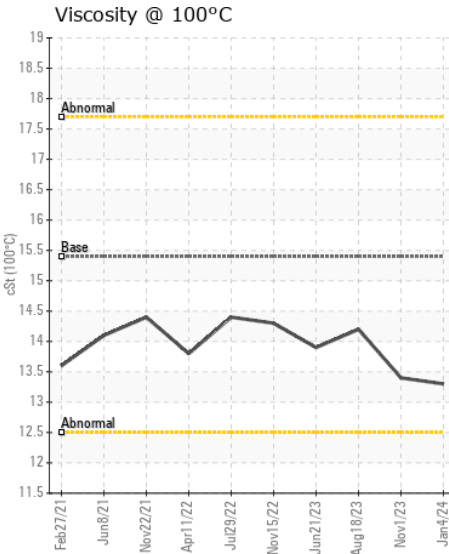
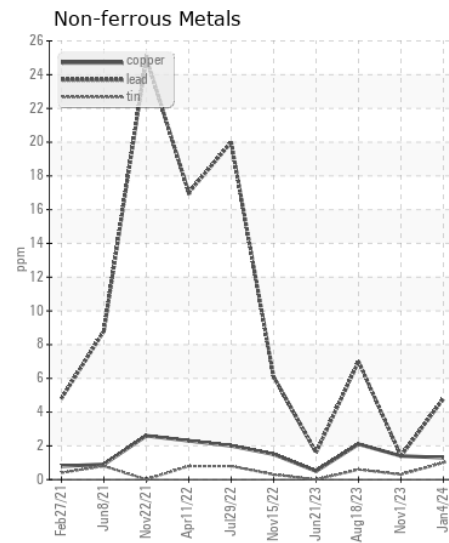
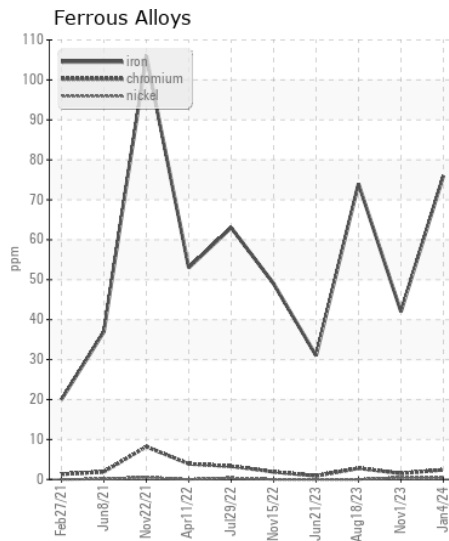
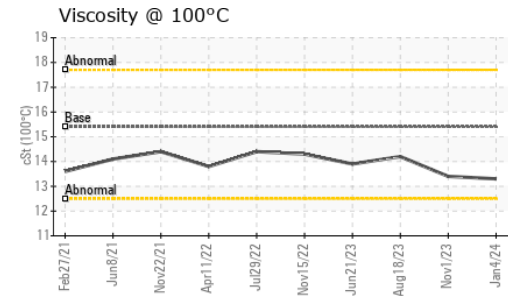
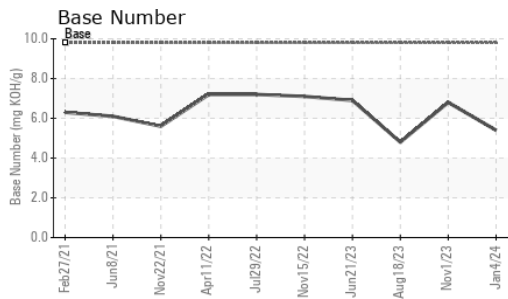
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>11</b>	7	6
Potassium	ppm	ASTM D5185m	>20	<b>24</b>	22	46
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>1</b>	0.7	1.3
Nitration	Abs/cm	*ASTM D7624	>20	<b>11.5</b>	10.7	12.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>24.6</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>7</b>	2	4
Boron	ppm	ASTM D5185m	0	<b>4</b>	2	2
Barium	ppm	ASTM D5185m	0	<b>0</b>	5	0
Molybdenum	ppm	ASTM D5185m	60	<b>66</b>	61	67
Manganese	ppm	ASTM D5185m	0	<b>1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	1010	<b>1016</b>	869	965
Calcium	ppm	ASTM D5185m	1070	<b>1157</b>	1042	1209
Phosphorus	ppm	ASTM D5185m	1150	<b>1175</b>	1014	1074
Zinc	ppm	ASTM D5185m	1270	<b>1399</b>	1163	1281
Sulfur	ppm	ASTM D5185m	2060	<b>2911</b>	3139	2824
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>20.6</b>	17.6	22.9
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>5.4</b>	6.8	4.8
Visc @ 100°C	cSt	ASTM D445	15.4	<b>13.3</b>	13.4	14.2



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0094876 **Received** : 08 Jan 2024  
**Lab Number** : 06054624 **Diagnosed** : 10 Jan 2024  
**Unique Number** : 10820573 **Diagnostician** : Sean Felton  
**Test Package** : FLEET

**GFL Environmental - 625 - Harrison Hauling**  
 4102 Industrial Pkwy  
 Harrison, MI  
 US 48625  
 Contact: Glenda Standen  
 gstanden@gflenv.com  
 T:  
 F:

Certificate L2367  
 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)