



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

Machine Id  
**2702**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 15W40 (11 GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0072113</b>	GFL0083651	GFL0074589
Sample Date		Client Info		<b>04 Jan 2024</b>	28 Sep 2023	12 Jul 2023
Machine Age	hrs	Client Info		<b>16087</b>	15398	14831
Oil Age	hrs	Client Info		<b>600</b>	567	150
Filter Age	hrs	Client Info		<b>600</b>	567	0
Oil Changed		Client Info		<b>Changed</b>	Changed	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	>165	<b>23</b>	12	10
Chromium	ppm	ASTM D5185m	>5	<b>1</b>	1	<1
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>3</b>	2	1
Lead	ppm	ASTM D5185m	>150	<b>2</b>	2	<1
Copper	ppm	ASTM D5185m	>90	<b>3</b>	8	3
Tin	ppm	ASTM D5185m	>5	<b>&lt;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**

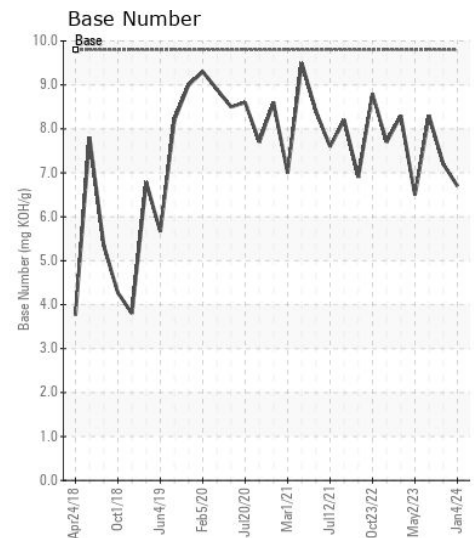
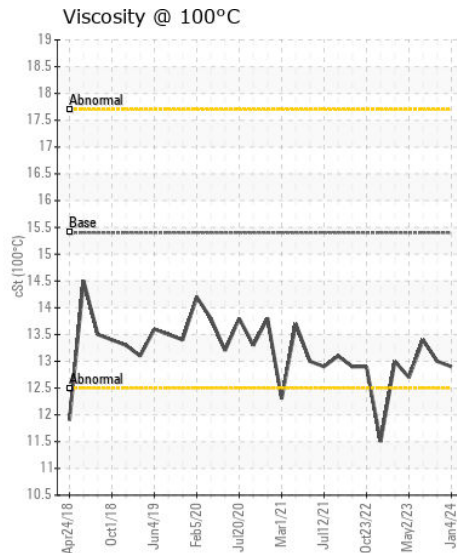
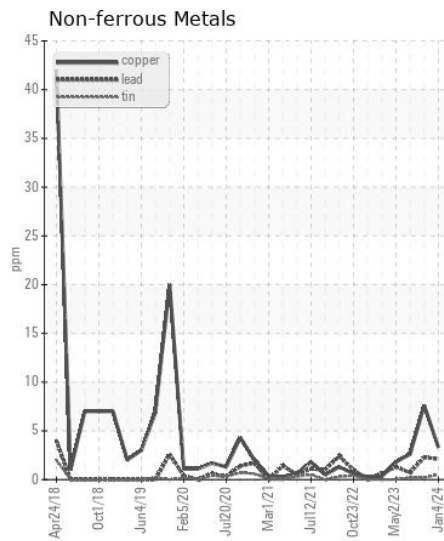
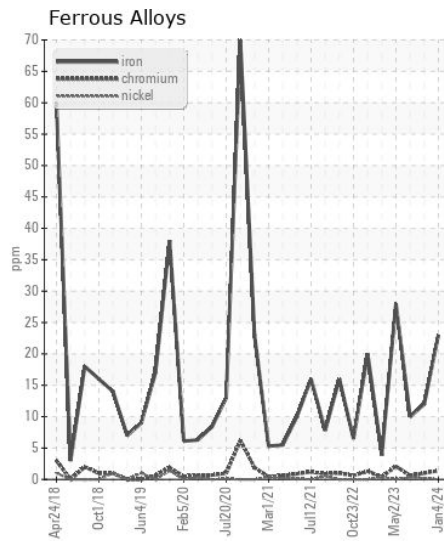
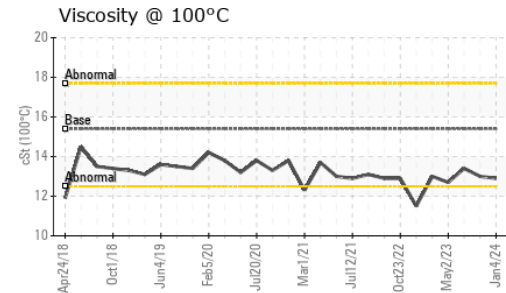
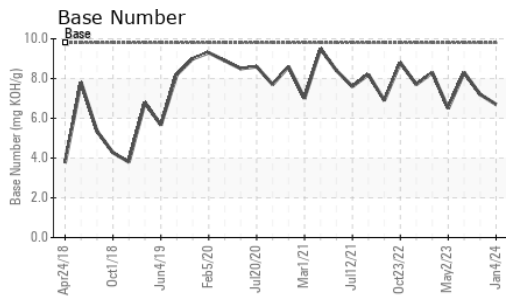
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>35	<b>7</b>	6	5
Potassium	ppm	ASTM D5185m	>20	<b>6</b>	1	2
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	>7.5	<b>0.7</b>	0.5	0.3
Nitration	Abs/cm	*ASTM D7624	>20	<b>10.1</b>	9.3	6.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>20.8</b>	20.1	18.1
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>2</b>	4	1
Boron	ppm	ASTM D5185m	0	<b>4</b>	2	6
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	60	<b>62</b>	68	64
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	1010	<b>896</b>	954	849
Calcium	ppm	ASTM D5185m	1070	<b>1005</b>	1053	1058
Phosphorus	ppm	ASTM D5185m	1150	<b>1026</b>	1036	979
Zinc	ppm	ASTM D5185m	1270	<b>1158</b>	1280	1131
Sulfur	ppm	ASTM D5185m	2060	<b>3102</b>	3151	3003
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>16.9</b>	16.2	13.9
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>6.7</b>	7.2	8.3
Visc @ 100°C	cSt	ASTM D445	15.4	<b>12.9</b>	13.0	13.4



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0072113 **Received** : 11 Jan 2024  
**Lab Number** : 06058649 **Diagnosed** : 12 Jan 2024  
**Unique Number** : 10830031 **Diagnostician** : Wes Davis  
**Test Package** : FLEET

**GFL Environmental - 095 - Atlanta West**  
 2699 Cochran Industrial Blvd  
 Douglasville, GA  
 US 30127-1332  
 Contact: Darrell Welch  
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 T: (800)207-6618  
 F:

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)