



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



Machine Id  
**729044-361494**  
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>GFL0121551</b>	GFL0121479	GFL0105344
Sample Date		Client Info		<b>08 Jul 2024</b>	20 Jun 2024	31 May 2024
Machine Age	hrs	Client Info		<b>6108</b>	5976	5828
Oil Age	hrs	Client Info		<b>150</b>	600	150
Filter Age	hrs	Client Info		<b>150</b>	600	150
Oil Changed		Client Info		<b>Not Chngd</b>	Changed	Not Chngd
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	>120	<b>4</b>	6	14
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>5	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185m	>2	<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m	>20	<b>2</b>	3	3
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	1	9
Copper	ppm	ASTM D5185m	>330	<b>&lt;1</b>	2	43
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	2
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

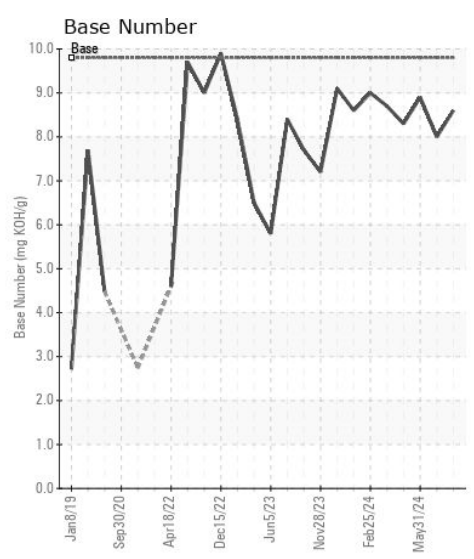
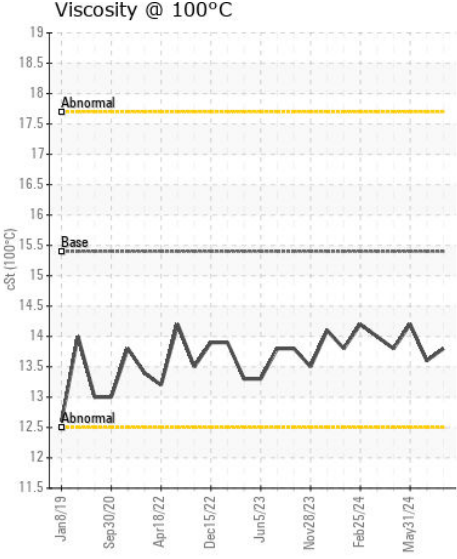
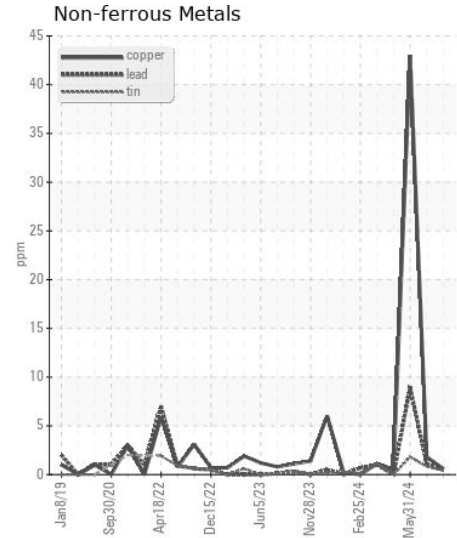
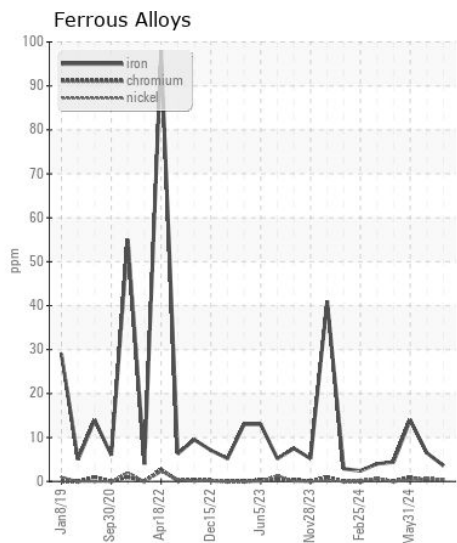
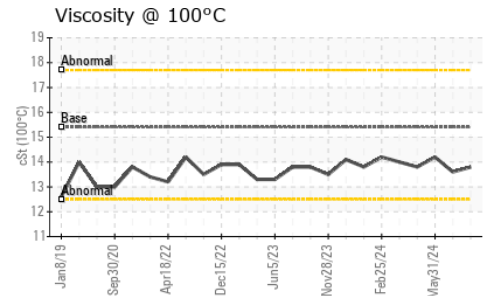
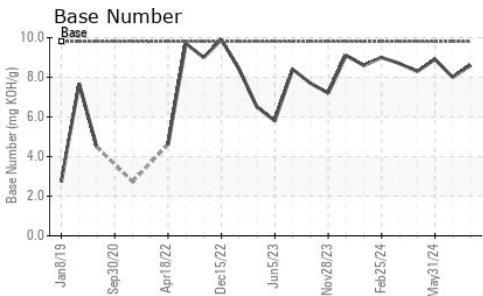
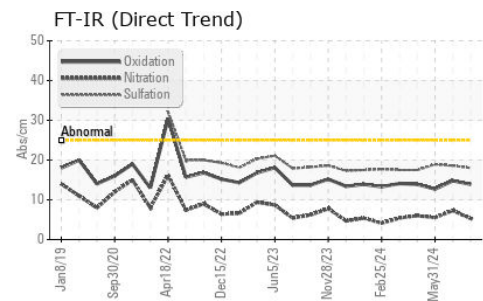
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>3</b>	5	6
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	6	3
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>0.1</b>	0.1	0.9
Nitration	Abs/cm	*ASTM D7624	>20	<b>5.3</b>	7.3	5.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>18.0</b>	18.6	18.9
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>4</b>	10	<1
Boron	ppm	ASTM D5185m	0	<b>&lt;1</b>	2	0
Barium	ppm	ASTM D5185m	0	<b>0</b>	1	0
Molybdenum	ppm	ASTM D5185m	60	<b>55</b>	58	54
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	<1	0
Magnesium	ppm	ASTM D5185m	1010	<b>893</b>	903	836
Calcium	ppm	ASTM D5185m	1070	<b>1012</b>	1058	976
Phosphorus	ppm	ASTM D5185m	1150	<b>965</b>	1029	842
Zinc	ppm	ASTM D5185m	1270	<b>1147</b>	1212	1088
Sulfur	ppm	ASTM D5185m	2060	<b>2957</b>	2980	2939
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>13.9</b>	14.8	12.7
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>8.6</b>	8.0	8.9
Visc @ 100°C	cSt	ASTM D445	15.4	<b>13.8</b>	13.6	14.2



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0121551 **Received** : 10 Jul 2024  
**Lab Number** : 06232005 **Tested** : 10 Jul 2024  
**Unique Number** : 11115498 **Diagnosed** : 10 Jul 2024 - Wes Davis  
**Test Package** : FLEET

**GFL Environmental - 821 - Ozarks Hauling**  
 33924 Olath Drive  
 Lebanon, MO  
 US 65536  
 Contact: Landen Johnson  
 landen.johnson@gflenv.com  
 T: (417)664-0010  
 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)