



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



Area  
**(43344HA)**  
Machine Id  
**811011**  
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>GFL0122672</b>	GFL0110168	GFL0110203
Sample Date		Client Info		<b>03 Jul 2024</b>	02 May 2024	10 Apr 2024
Machine Age	hrs	Client Info		<b>8085</b>	7622	7492
Oil Age	hrs	Client Info		<b>600</b>	200	600
Filter Age	hrs	Client Info		<b>600</b>	200	600
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	MARGINAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>120	<b>21</b>	5	13
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	1	<1
Titanium	ppm	ASTM D5185m	>2	<b>0</b>	<1	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m	>20	<b>2</b>	2	2
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	2	<1
Copper	ppm	ASTM D5185m	>330	<b>2</b>	<1	1
Tin	ppm	ASTM D5185m	>15	<b>0</b>	2	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

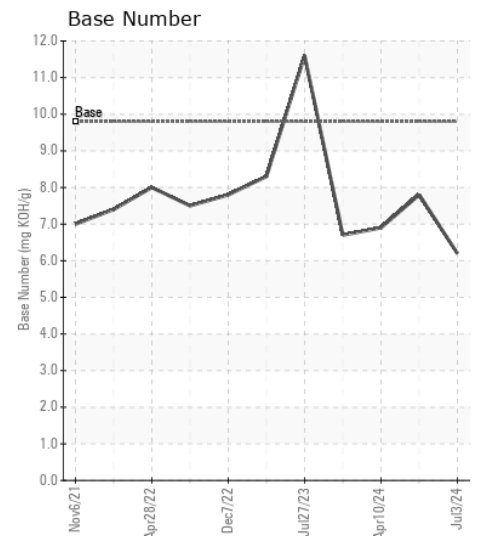
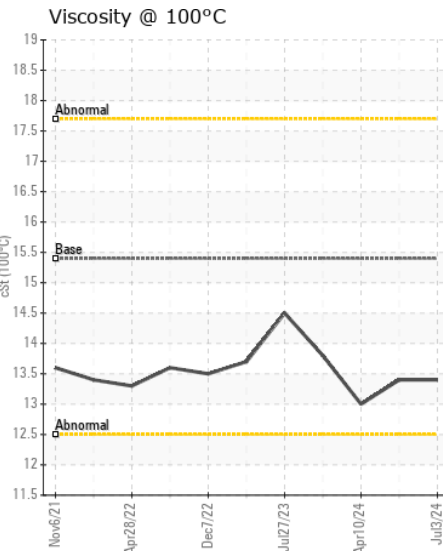
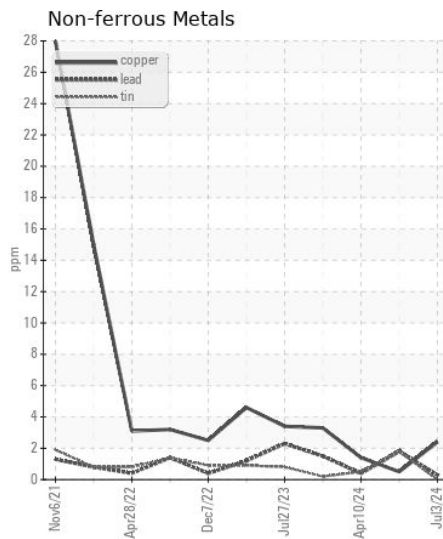
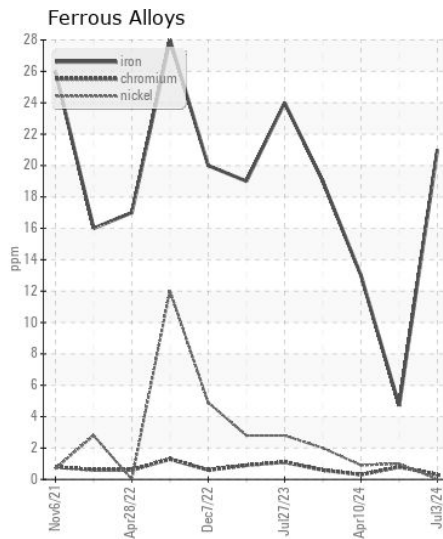
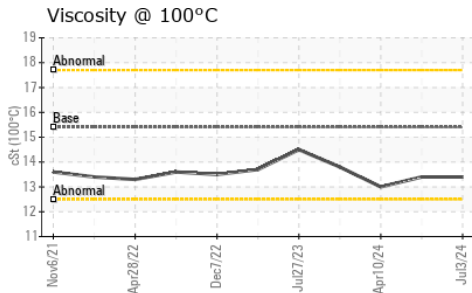
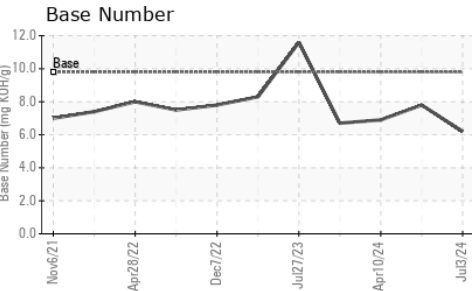
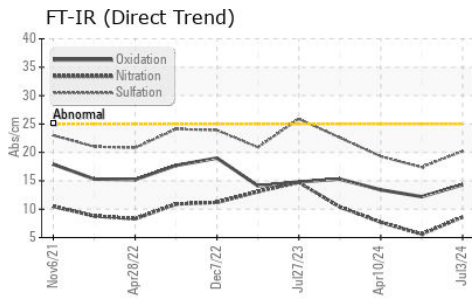
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>4</b>	4	4
Potassium	ppm	ASTM D5185m	>20	<b>28</b>	12	▲ 64
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>1.1</b>	0.3	0.7
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.6</b>	5.6	7.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>20.2</b>	17.4	19.3
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>70</b>	28	▲ 105
Boron	ppm	ASTM D5185m	0	<b>1</b>	0	4
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	60	<b>60</b>	51	59
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	1	<1
Magnesium	ppm	ASTM D5185m	1010	<b>937</b>	935	826
Calcium	ppm	ASTM D5185m	1070	<b>1228</b>	1155	1049
Phosphorus	ppm	ASTM D5185m	1150	<b>1019</b>	1097	934
Zinc	ppm	ASTM D5185m	1270	<b>1301</b>	1310	1144
Sulfur	ppm	ASTM D5185m	2060	<b>3202</b>	3877	3214
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>14.3</b>	12.2	13.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>6.2</b>	7.8	6.9
Visc @ 100°C	cSt	ASTM D445	15.4	<b>13.4</b>	13.4	13.0



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
 Sample No. : GFL0122672  
 Lab Number : 06231090  
 Unique Number : 11114583  
 Test Package : FLEET

Received : 08 Jul 2024  
 Tested : 10 Jul 2024  
 Diagnosed : 10 Jul 2024 - Wes Davis

GFL Environmental - 660 - Lynchburg Hauling  
 2410 Mayflower Drive  
 Lynchburg, VA  
 US 24501

Contact: Delbert Beasley  
 dbeasley@countyrecycling.net

T: (434)665-5998

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)