



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

Machine Id  
**729008**  
 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>GFL0085513</b>	GFL0060407	GFL0060394
Sample Date		Client Info		<b>17 Jun 2024</b>	06 Jul 2023	13 Mar 2023
Machine Age	mls	Client Info		<b>80110</b>	67289	61811
Oil Age	mls	Client Info		<b>0</b>	0	0
Filter Age	mls	Client Info		<b>0</b>	0	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	>100	<b>15</b>	31	97
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	1	4
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	<1	2
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	10	38
Silver	ppm	ASTM D5185m	>3	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m	>20	<b>2</b>	6	12
Lead	ppm	ASTM D5185m	>40	<b>2</b>	1	4
Copper	ppm	ASTM D5185m	>330	<b>2</b>	5	13
Tin	ppm	ASTM D5185m	>15	<b>0</b>	<1	1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

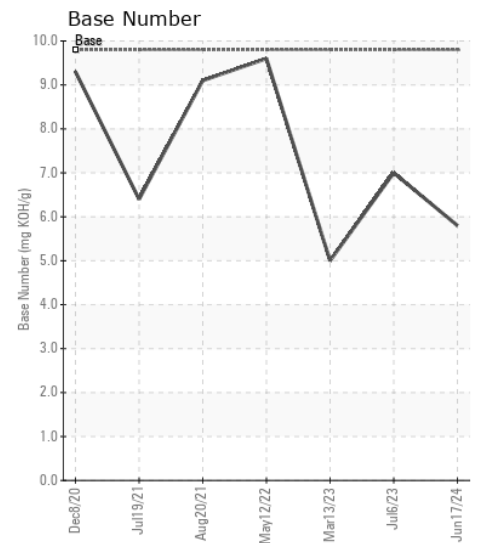
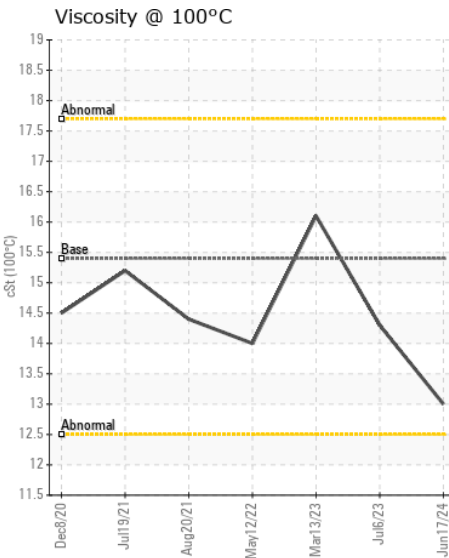
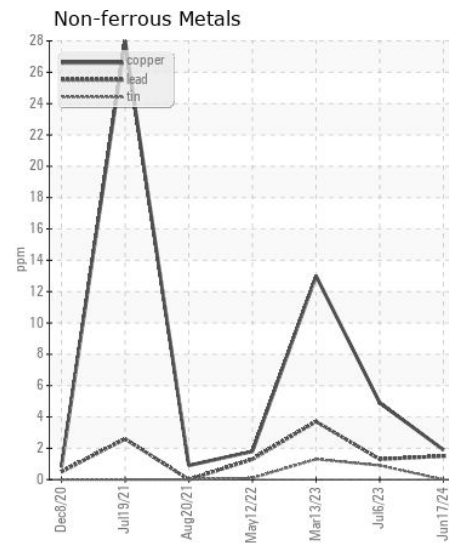
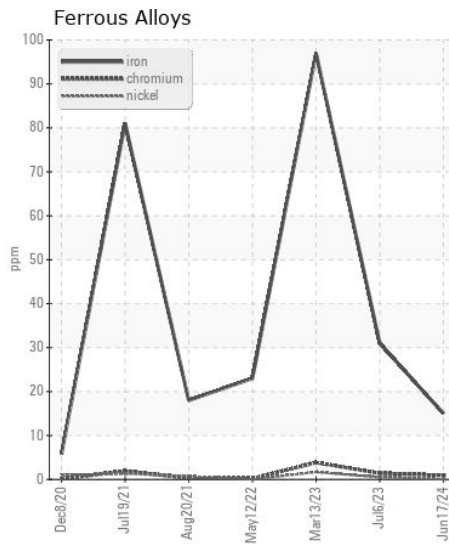
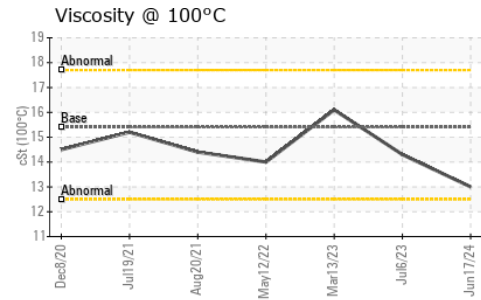
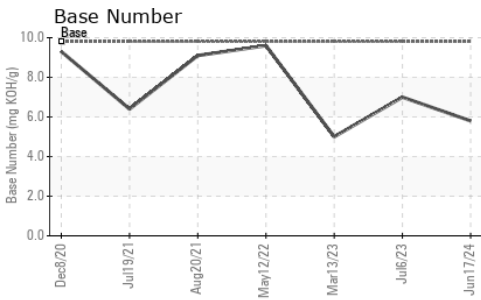
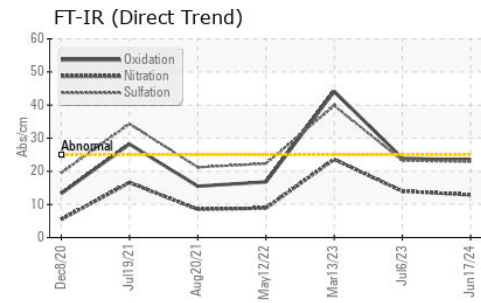
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>7</b>	11	25
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	5	13
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>0.8</b>	1	2.7
Nitration	Abs/cm	*ASTM D7624	>20	<b>12.9</b>	14.0	23.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>22.9</b>	23.2	39.8
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>3</b>	6	10
Boron	ppm	ASTM D5185m	0	<b>4</b>	2	5
Barium	ppm	ASTM D5185m	0	<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185m	60	<b>57</b>	59	33
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	1	2
Magnesium	ppm	ASTM D5185m	1010	<b>838</b>	932	657
Calcium	ppm	ASTM D5185m	1070	<b>1283</b>	1274	1403
Phosphorus	ppm	ASTM D5185m	1150	<b>1069</b>	1075	975
Zinc	ppm	ASTM D5185m	1270	<b>1341</b>	1381	1350
Sulfur	ppm	ASTM D5185m	2060	<b>3502</b>	3714	2693
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>23.4</b>	23.9	44.1
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>5.8</b>	7.0	5.0
Visc @ 100°C	cSt	ASTM D445	15.4	<b>13.0</b>	14.3	16.1



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0085513  
**Lab Number** : 06215607  
**Unique Number** : 11088471  
**Test Package** : FLEET

**Received** : 20 Jun 2024  
**Tested** : 21 Jun 2024  
**Diagnosed** : 21 Jun 2024 - Wes Davis

**GFL Environmental - 660S - Roanoke**  
 2045 LEE HWY  
 Cloverdale, VA  
 US 24077  
 Contact: DELBERT BEASLEY

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)

T:  
F: