



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

Area  
**(27366TB)**

Machine Id  
**3855**

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>GFL0098053</b>	GFL0060128	GFL0052175
Sample Date		Client Info		<b>29 Jan 2024</b>	16 Jan 2023	24 Oct 2022
Machine Age	hrs	Client Info		<b>7661</b>	7661	7661
Oil Age	hrs	Client Info		<b>7661</b>	10348	9823
Filter Age	hrs	Client Info		<b>0</b>	525	391
Oil Changed		Client Info		<b>N/A</b>	Changed	Changed
Filter Changed		Client Info		<b>N/A</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>165	<b>5</b>	5	4
Chromium	ppm	ASTM D5185m	>5	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>2</b>	0	1
Lead	ppm	ASTM D5185m	>150	<b>1</b>	3	<1
Copper	ppm	ASTM D5185m	>90	<b>1</b>	12	40
Tin	ppm	ASTM D5185m	>5	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

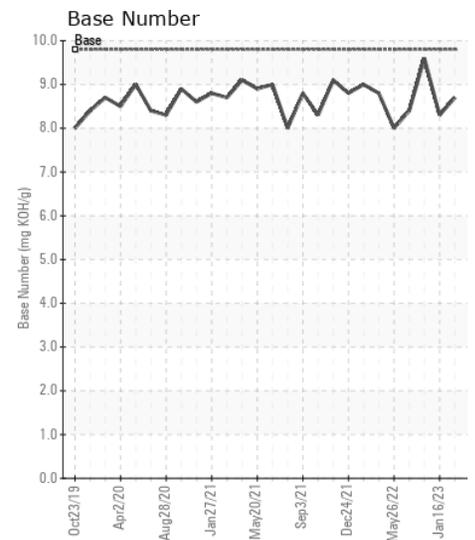
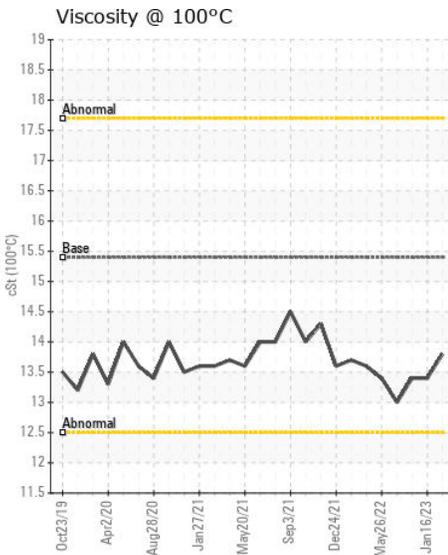
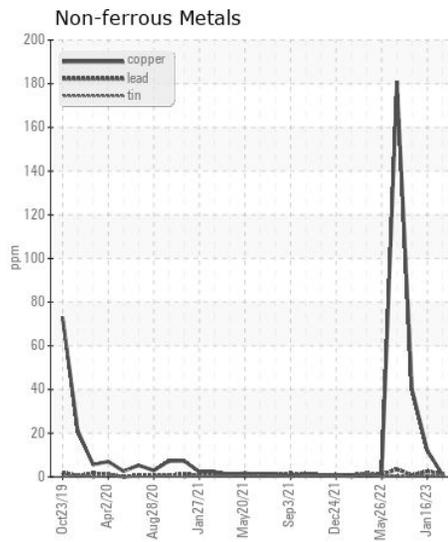
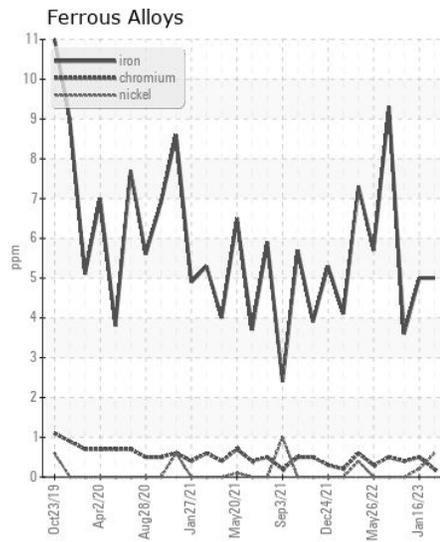
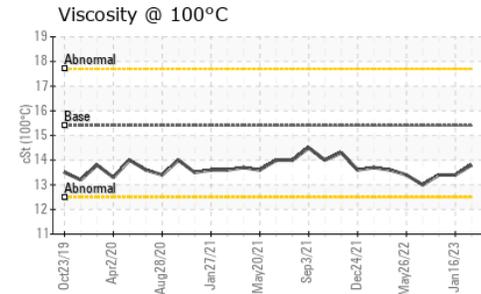
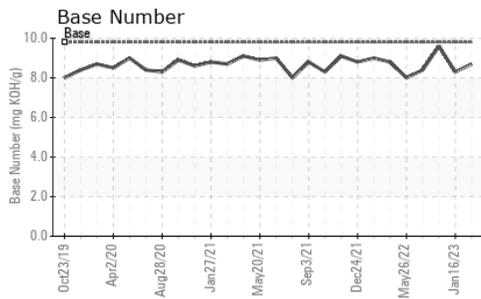
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>35	<b>3</b>	4	3
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	2	<1
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>0.2</b>	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	<b>5.7</b>	7.1	7.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>18.1</b>	19.1	20.7
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>0</b>	4	1
Boron	ppm	ASTM D5185m	0	<b>5</b>	2	0
Barium	ppm	ASTM D5185m	0	<b>13</b>	0	0
Molybdenum	ppm	ASTM D5185m	60	<b>58</b>	54	58
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	1010	<b>856</b>	954	942
Calcium	ppm	ASTM D5185m	1070	<b>1015</b>	1134	1107
Phosphorus	ppm	ASTM D5185m	1150	<b>1019</b>	1037	973
Zinc	ppm	ASTM D5185m	1270	<b>1121</b>	1233	1274
Sulfur	ppm	ASTM D5185m	2060	<b>3465</b>	2829	3180
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>13.7</b>	14.5	15.5
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>8.7</b>	8.3	9.6
Visc @ 100°C	cSt	ASTM D445	15.4	<b>13.8</b>	13.4	13.4



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0098053  
**Lab Number** : 06085669  
**Unique Number** : 10873114  
**Test Package** : FLEET

**Received** : 12 Feb 2024  
**Tested** : 12 Feb 2024  
**Diagnosed** : 12 Feb 2024 - Wes Davis

**GFL Environmental - 045 - Tidewater**  
 3821 Cook Blvd.  
 Chesapeake, VA  
 US 23323

Contact: ELVIN RODRIGUEZ  
 elvinrodriguez@gflenv.com

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: