



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

Machine Id  
**929119**  
 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>GFL0116523</b>	GFL0084772	GFL0084849
Sample Date		Client Info		<b>16 Apr 2024</b>	02 Nov 2023	04 Aug 2023
Machine Age	mls	Client Info		<b>138958</b>	12875	12217
Oil Age	mls	Client Info		<b>12875</b>	12217	200
Filter Age	mls	Client Info		<b>0</b>	0	200
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	ABNORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>35</b>	39	▲ 108
Chromium	ppm	ASTM D5185m	>20	<b>1</b>	1	3
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m	>20	<b>6</b>	9	9
Lead	ppm	ASTM D5185m	>40	<b>0</b>	<1	0
Copper	ppm	ASTM D5185m	>330	<b>0</b>	2	4
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	<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**

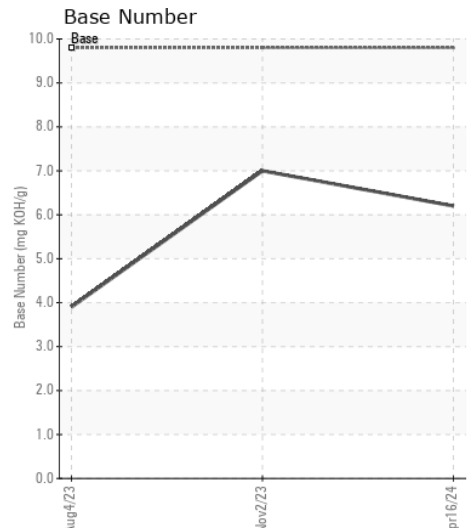
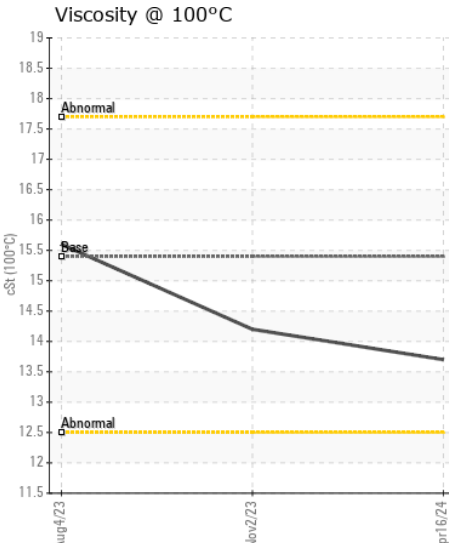
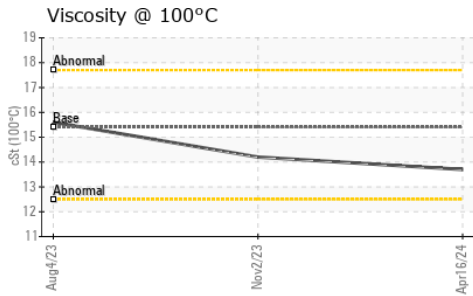
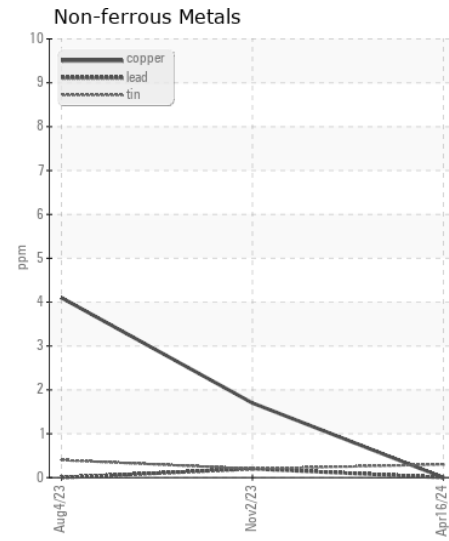
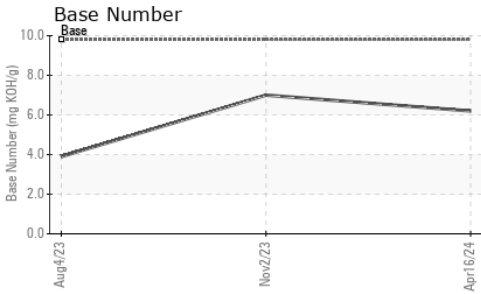
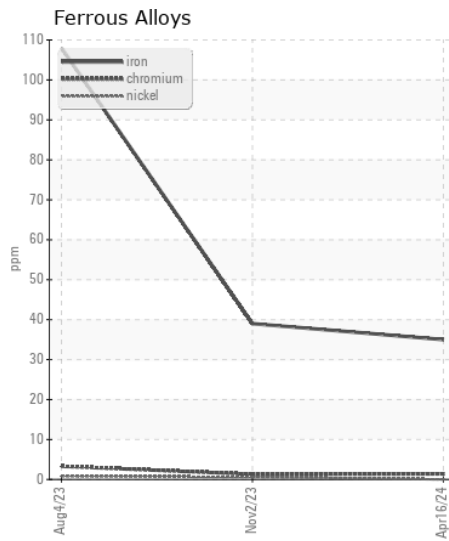
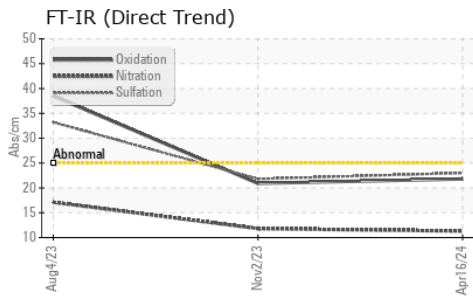
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>6</b>	6	12
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	2	3
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>0.6</b>	0.5	1
Nitration	Abs/cm	*ASTM D7624	>20	<b>11.3</b>	11.8	17.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>23.0</b>	21.8	33.2
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>5</b>	6	4
Boron	ppm	ASTM D5185m	0	<b>3</b>	8	19
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	60	<b>58</b>	51	25
Manganese	ppm	ASTM D5185m	0	<b>0</b>	<1	1
Magnesium	ppm	ASTM D5185m	1010	<b>954</b>	917	828
Calcium	ppm	ASTM D5185m	1070	<b>1073</b>	1075	1557
Phosphorus	ppm	ASTM D5185m	1150	<b>1007</b>	1050	832
Zinc	ppm	ASTM D5185m	1270	<b>1236</b>	1237	1088
Sulfur	ppm	ASTM D5185m	2060	<b>3119</b>	2911	3366
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>21.8</b>	20.9	38.5
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>6.2</b>	7.0	▲ 3.9
Visc @ 100°C	cSt	ASTM D445	15.4	<b>13.7</b>	14.2	15.6



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0116523 **Received** : 17 Apr 2024  
**Lab Number** : 06151437 **Tested** : 18 Apr 2024  
**Unique Number** : 10981515 **Diagnosed** : 18 Apr 2024 - Wes Davis  
**Test Package** : FLEET

**GFL Environmental - 959A - Urbana HC**  
 4808 cunningham Rd  
 Urbana, IL  
 US 61802  
 Contact: Kristine Tryon  
 Ktryon@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)