



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

Area

**(YA163827)**

Machine Id

**411024**

Component

**Diesel Engine**

Fluid

**PETRO CANADA DURON SHP 15W40 (10 GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0115924</b>	GFL0116012	GFL0089977
Sample Date		Client Info		<b>10 Jul 2024</b>	18 Jun 2024	23 Jan 2024
Machine Age	hrs	Client Info		<b>18699</b>	18699	18699
Oil Age	hrs	Client Info		<b>0</b>	0	1317
Filter Age	hrs	Client Info		<b>0</b>	0	450
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>165	<b>11</b>	9	10
Chromium	ppm	ASTM D5185m	>5	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m	>2	<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>6</b>	6	3
Lead	ppm	ASTM D5185m	>150	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m	>90	<b>0</b>	0	<1
Tin	ppm	ASTM D5185m	>5	<b>0</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**

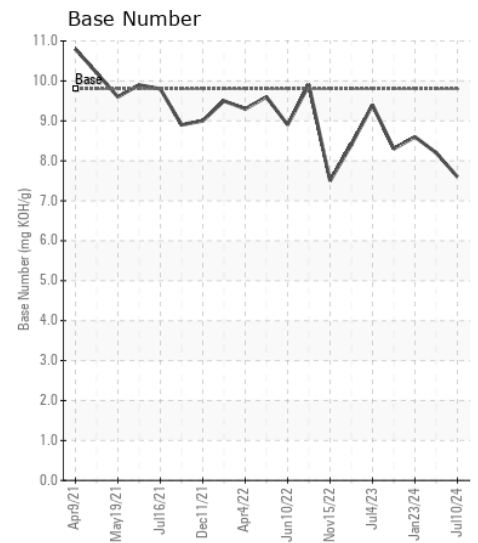
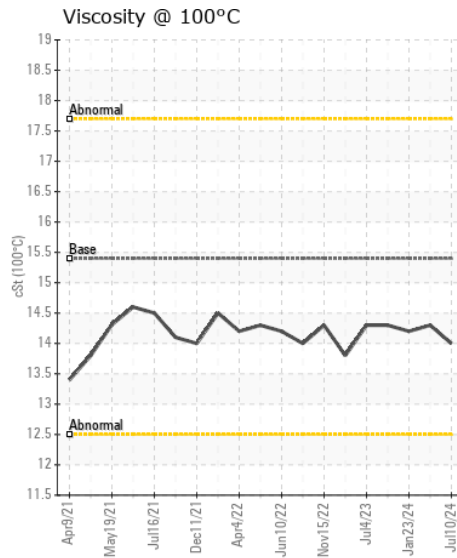
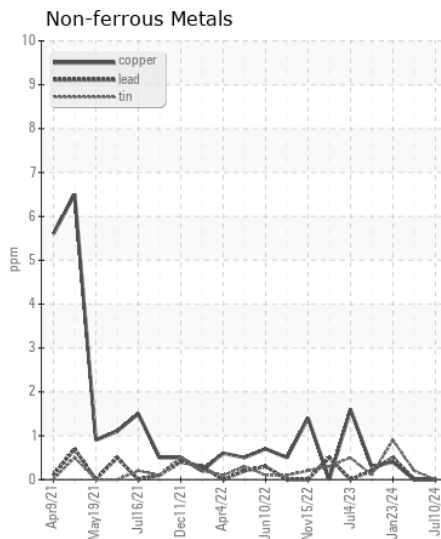
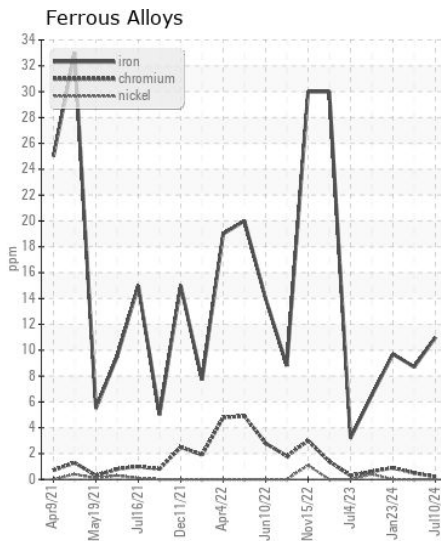
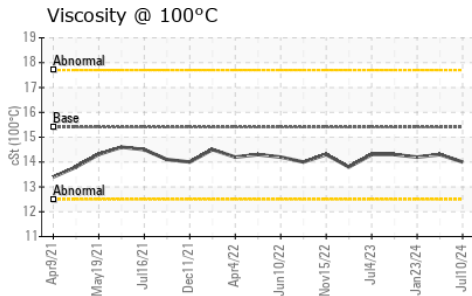
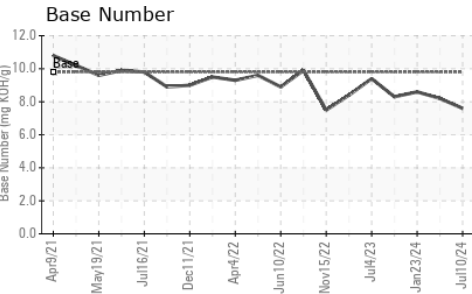
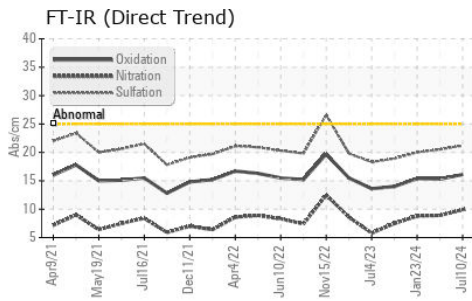
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>35	<b>3</b>	4	3
Potassium	ppm	ASTM D5185m	>20	<b>14</b>	14	8
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>1.3</b>	1.1	1.1
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.9</b>	8.9	8.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>21.2</b>	20.5	20.0
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>	4	4
Boron	ppm	ASTM D5185m	0	<b>4</b>	5	2
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	60	<b>60</b>	58	58
Manganese	ppm	ASTM D5185m	0	<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m	1010	<b>968</b>	951	884
Calcium	ppm	ASTM D5185m	1070	<b>1103</b>	1060	1069
Phosphorus	ppm	ASTM D5185m	1150	<b>1091</b>	1054	974
Zinc	ppm	ASTM D5185m	1270	<b>1336</b>	1255	1148
Sulfur	ppm	ASTM D5185m	2060	<b>3697</b>	3565	2548
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>16.1</b>	15.3	15.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>7.6</b>	8.2	8.6
Visc @ 100°C	cSt	ASTM D445	15.4	<b>14.0</b>	14.3	14.2



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0115924  
**Lab Number** : 06232911  
**Unique Number** : 11116404  
**Test Package** : FLEET

**GFL Environmental - 018 - Fayetteville**  
 4621 Marracco Drive  
 Hope Mills, NC  
 US 28348  
 Contact: Robert Carter  
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 T: (910)596-1170  
 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)