



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

Area  
**(YA134196) [D service]**

Machine Id  
**2673**

Component  
**Diesel Engine**

Fluid  
**PETRO CANADA DURON SHP 15W40 (46 GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0124488</b>	GFL0124458	GFL0098516
Sample Date		Client Info		<b>15 Jul 2024</b>	05 Jun 2024	24 Jan 2024
Machine Age	hrs	Client Info		<b>18594</b>	18468	17688
Oil Age	hrs	Client Info		<b>300</b>	780	634
Filter Age	hrs	Client Info		<b>0</b>	0	634
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	>165	<b>13</b>	26	9
Chromium	ppm	ASTM D5185m	>5	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m	>2	<b>0</b>	<1	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>3</b>	4	3
Lead	ppm	ASTM D5185m	>150	<b>0</b>	4	2
Copper	ppm	ASTM D5185m	>90	<b>6</b>	2	0
Tin	ppm	ASTM D5185m	>5	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

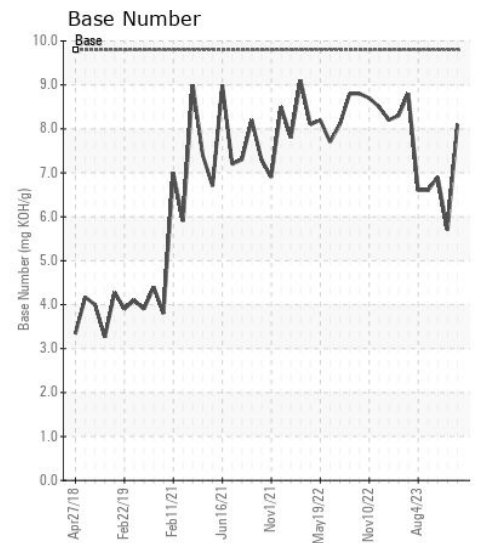
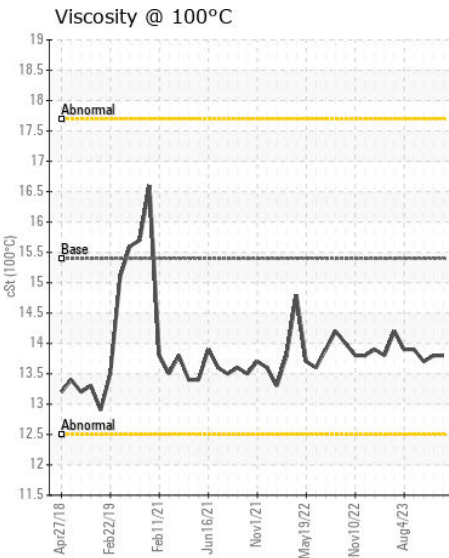
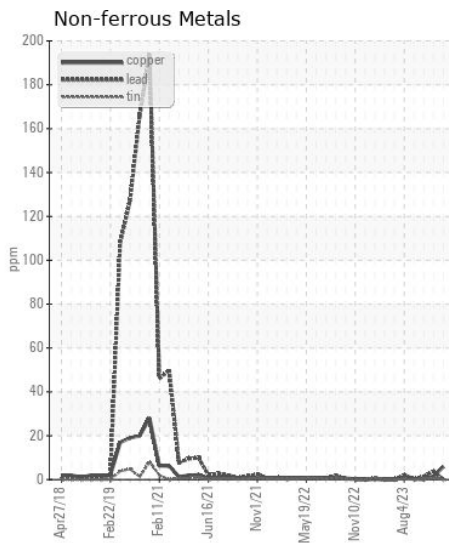
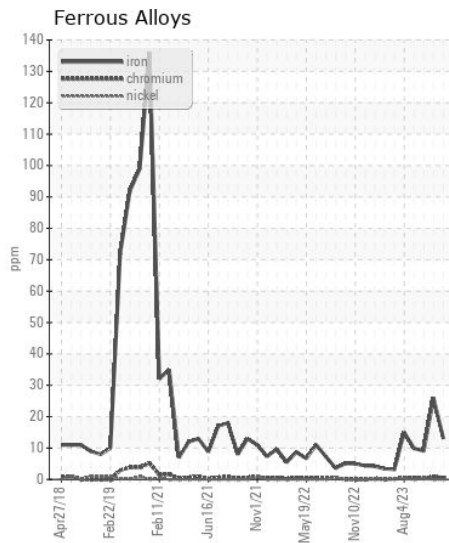
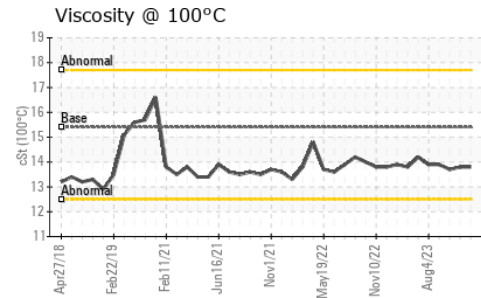
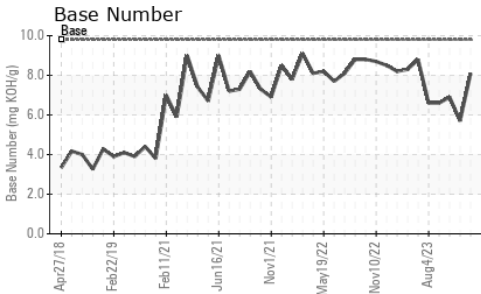
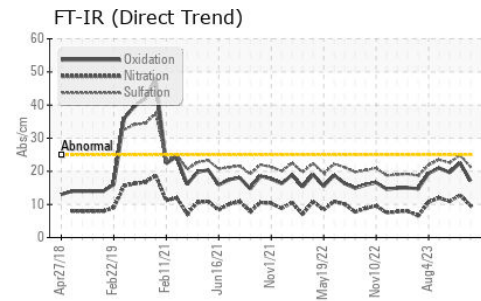
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>35	<b>5</b>	7	5
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	6	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>0.5</b>	0.7	0.5
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.6</b>	12.8	10.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>21.3</b>	24.9	22.6
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>6</b>	<1	1
Boron	ppm	ASTM D5185m	0	<b>5</b>	<1	1
Barium	ppm	ASTM D5185m	0	<b>0</b>	1	0
Molybdenum	ppm	ASTM D5185m	60	<b>62</b>	73	62
Manganese	ppm	ASTM D5185m	0	<b>2</b>	0	<1
Magnesium	ppm	ASTM D5185m	1010	<b>958</b>	1040	957
Calcium	ppm	ASTM D5185m	1070	<b>1144</b>	1271	1104
Phosphorus	ppm	ASTM D5185m	1150	<b>1079</b>	1074	1074
Zinc	ppm	ASTM D5185m	1270	<b>1315</b>	1406	1292
Sulfur	ppm	ASTM D5185m	2060	<b>3602</b>	3347	2861
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>17.1</b>	22.5	19.6
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>8.1</b>	5.7	6.9
Visc @ 100°C	cSt	ASTM D445	15.4	<b>13.8</b>	13.8	13.7



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0124488  
**Lab Number** : 06238781  
**Unique Number** : 11127615  
**Test Package** : FLEET

**Received** : 17 Jul 2024  
**Tested** : 17 Jul 2024  
**Diagnosed** : 17 Jul 2024 - Wes Davis

**GFL Environmental - 006 - Wilmington**  
 3618 US Highway 421 N  
 Wilmington, NC  
 US 28401

Contact: Eric Wood  
 eric.wood@gflenv.com

T: (717)723-1956  
 F: (910)762-6880

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)