



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

Area  
**(YA150071)**  
Machine Id  
**AUTOCAR 11000**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 15W40 (8 GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0119669</b>	GFL0111397	GFL0046014
Sample Date		Client Info		<b>13 Jun 2024</b>	03 Feb 2024	23 Mar 2022
Machine Age	hrs	Client Info		<b>11520</b>	0	5102
Oil Age	hrs	Client Info		<b>0</b>	0	4041
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	ATTENTION

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>75	<b>10</b>	18	50
Chromium	ppm	ASTM D5185m	>5	<b>&lt;1</b>	1	<1
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m	>2	<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>15	<b>2</b>	1	11
Lead	ppm	ASTM D5185m	>25	<b>0</b>	<1	12
Copper	ppm	ASTM D5185m	>100	<b>&lt;1</b>	1	9
Tin	ppm	ASTM D5185m	>4	<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**

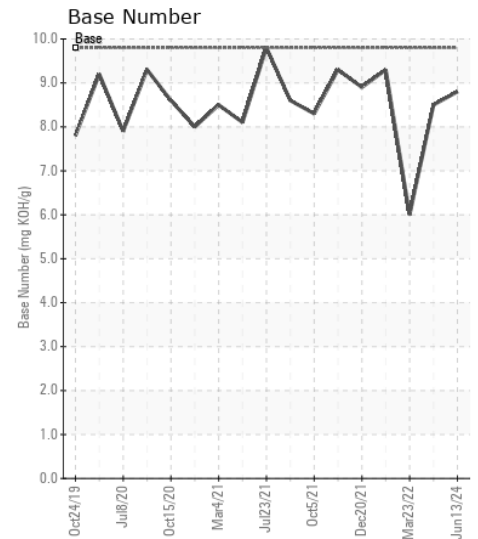
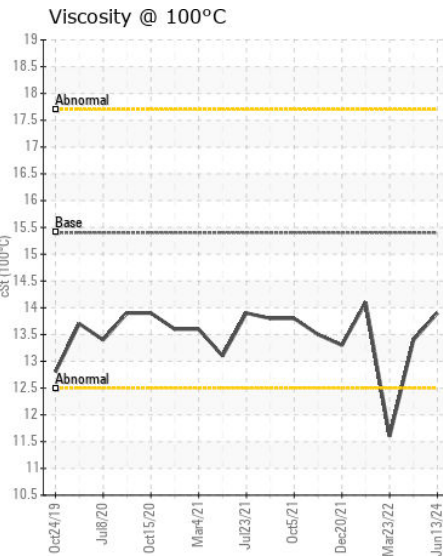
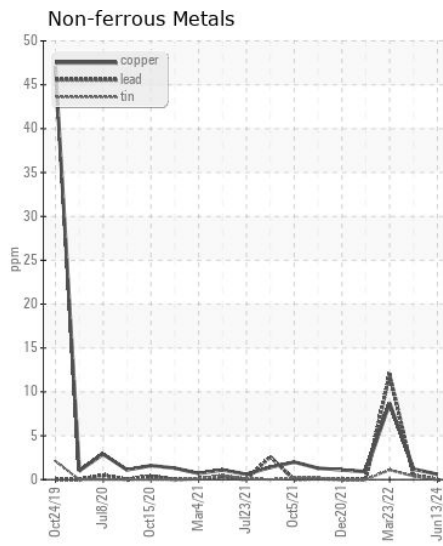
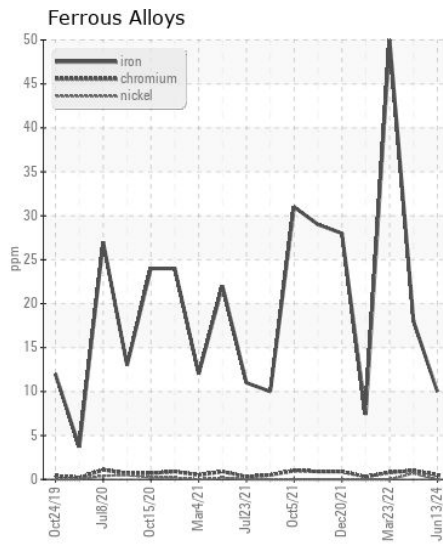
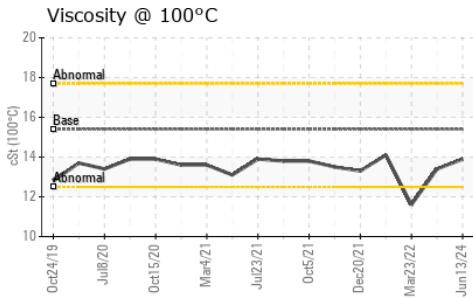
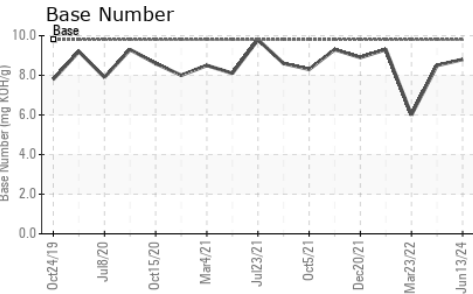
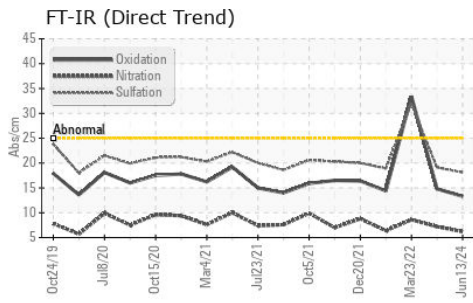
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>4</b>	5	6
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	2	0
Fuel		WC Method	>3.0	<b>&lt;1.0</b>	<1.0	▲ 1.7
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>6	<b>0.3</b>	0.4	0.5
Nitration	Abs/cm	*ASTM D7624	>20	<b>6.2</b>	7.2	8.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>18.1</b>	19.1	32.0
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>	0	52
Boron	ppm	ASTM D5185m	0	<b>6</b>	3	19
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	60	<b>58</b>	62	46
Manganese	ppm	ASTM D5185m	0	<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m	1010	<b>938</b>	947	745
Calcium	ppm	ASTM D5185m	1070	<b>1082</b>	1000	869
Phosphorus	ppm	ASTM D5185m	1150	<b>1011</b>	953	862
Zinc	ppm	ASTM D5185m	1270	<b>1258</b>	1209	959
Sulfur	ppm	ASTM D5185m	2060	<b>2993</b>	2957	2366
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>13.3</b>	14.8	33.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>8.8</b>	8.5	6.0
Visc @ 100°C	cSt	ASTM D445	15.4	<b>13.9</b>	13.4	● 11.6



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0119669  
**Lab Number** : 06216488  
**Unique Number** : 11089352  
**Test Package** : FLEET

**Received** : 20 Jun 2024  
**Tested** : 22 Jun 2024  
**Diagnosed** : 22 Jun 2024 - Wes Davis

**GFL Environmental - 004 - Newport - Central Coast**  
 427 Roberts Road  
 Newport, NC  
 US 28570

Contact: Marquis Williams  
 marquis.williams@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: (252)223-6010