



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



Machine Id  
**136M**  
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>GFL0114331</b>	GFL0114336	GFL0110129
Sample Date		Client Info		<b>05 Apr 2024</b>	15 Mar 2024	22 Feb 2024
Machine Age	hrs	Client Info		<b>22498</b>	22360	22140
Oil Age	hrs	Client Info		<b>20911</b>	0	22140
Filter Age	hrs	Client Info		<b>0</b>	0	0
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>	ABNORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>120	<b>2</b>	31	7
Chromium	ppm	ASTM D5185m	>20	<b>0</b>	2	<1
Nickel	ppm	ASTM D5185m	>5	<b>&lt;1</b>	▲ 7	2
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	>20	<b>1</b>	2	3
Lead	ppm	ASTM D5185m	>40	<b>1</b>	<1	<1
Copper	ppm	ASTM D5185m	>330	<b>&lt;1</b>	3	1
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	2	<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**

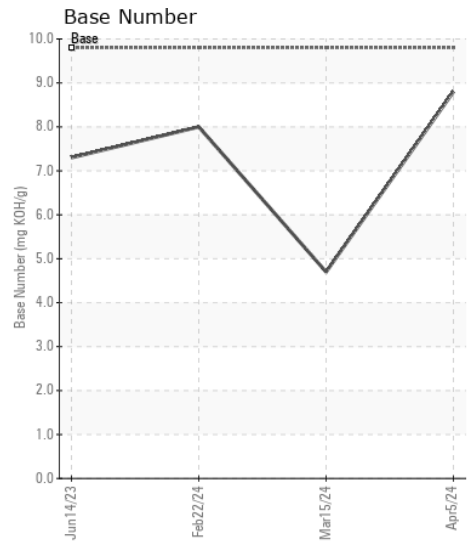
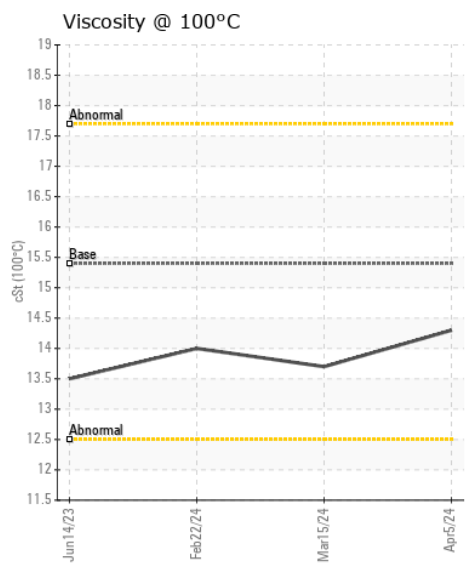
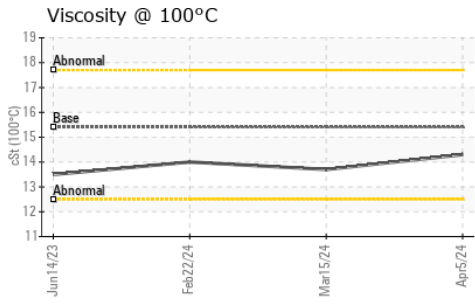
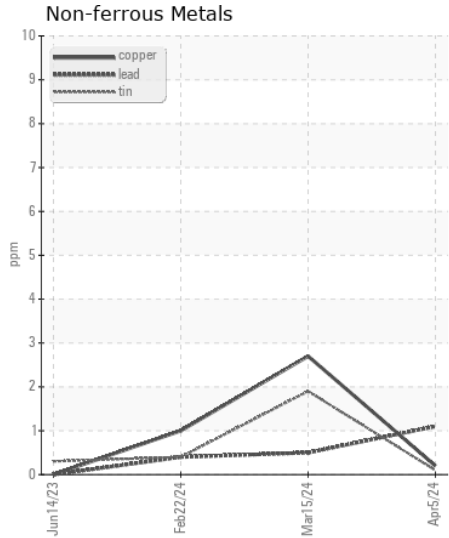
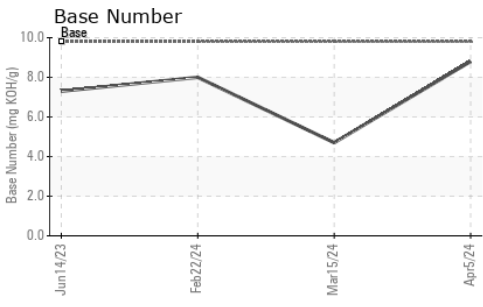
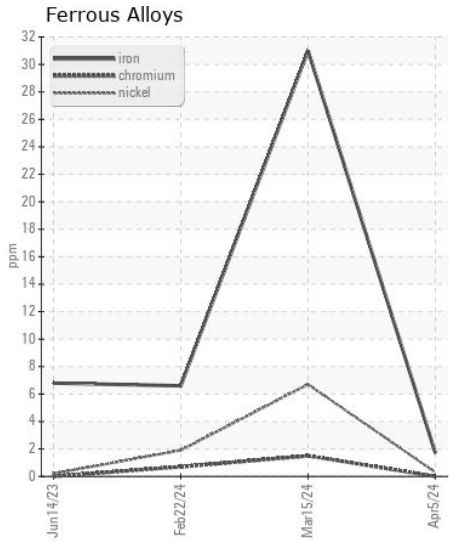
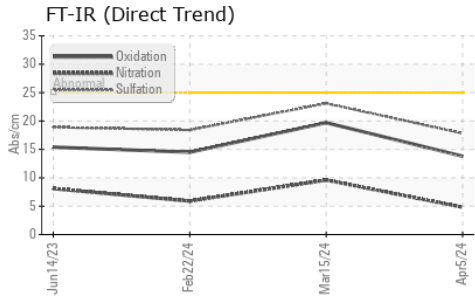
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>2</b>	6	5
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	2	4
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	>4	<b>0.1</b>	1.1	0.2
Nitration	Abs/cm	*ASTM D7624	>20	<b>4.8</b>	9.6	5.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>17.8</b>	23.1	18.4
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>1</b>	5	6
Boron	ppm	ASTM D5185m	0	<b>0</b>	2	3
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	34
Molybdenum	ppm	ASTM D5185m	60	<b>58</b>	59	56
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	1	<1
Magnesium	ppm	ASTM D5185m	1010	<b>988</b>	913	837
Calcium	ppm	ASTM D5185m	1070	<b>1088</b>	1082	950
Phosphorus	ppm	ASTM D5185m	1150	<b>1072</b>	960	917
Zinc	ppm	ASTM D5185m	1270	<b>1301</b>	1228	1130
Sulfur	ppm	ASTM D5185m	2060	<b>3829</b>	2573	3118
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>13.8</b>	19.7	14.5
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>8.8</b>	4.7	8.0
Visc @ 100°C	cSt	ASTM D445	15.4	<b>14.3</b>	13.7	14.0



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0114331 **Received** : 11 Apr 2024  
**Lab Number** : 06145623 **Tested** : 12 Apr 2024  
**Unique Number** : 10970431 **Diagnosed** : 12 Apr 2024 - Wes Davis  
**Test Package** : FLEET

**GFL Environmental - 468 - Dearborn**  
 3051 Schaefer Rd  
 Dearborn, MI  
 US 48126  
 Contact:

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)

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F: