



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



Machine Id  
**779M**  
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>GFL0108823</b>	GFL0105760	GFL0105749
Sample Date		Client Info		<b>29 Jan 2024</b>	22 Dec 2023	18 Dec 2023
Machine Age	hrs	Client Info		<b>16151</b>	15912	15095
Oil Age	hrs	Client Info		<b>600</b>	0	18000
Filter Age	hrs	Client Info		<b>600</b>	0	18000
Oil Changed		Client Info		<b>Changed</b>	Changed	Not Changd
Filter Changed		Client Info		<b>Changed</b>	Changed	Not Changd
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>90	<b>66</b>	47	<1
Chromium	ppm	ASTM D5185m	>20	<b>2</b>	1	0
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>20</b>	15	1
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	<1	0
Copper	ppm	ASTM D5185m	>330	<b>1</b>	1	13
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

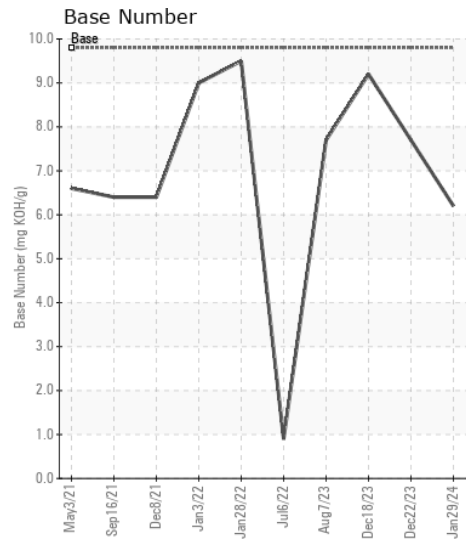
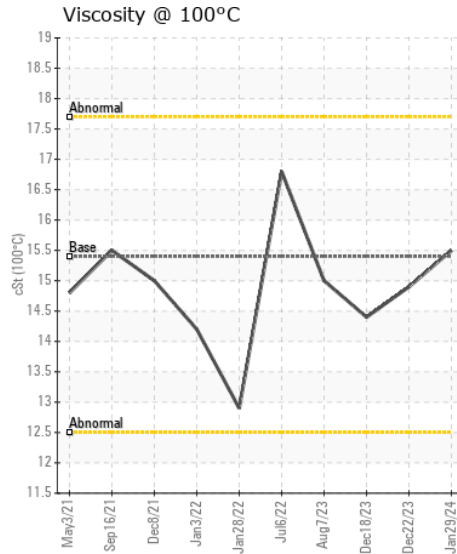
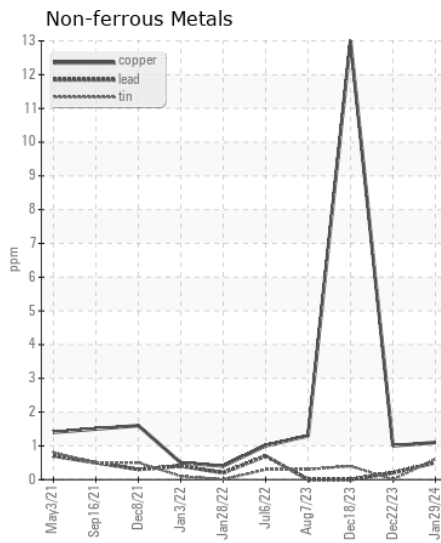
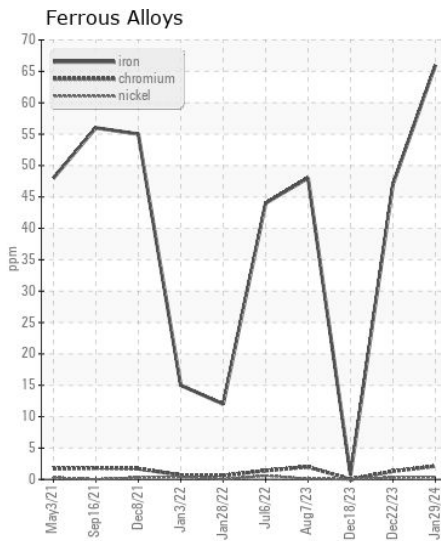
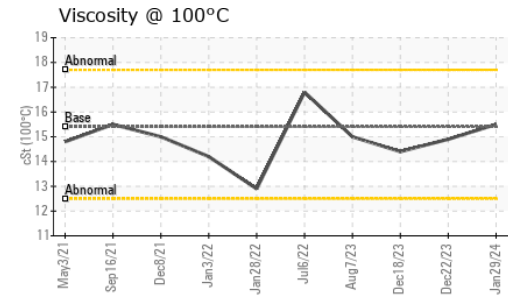
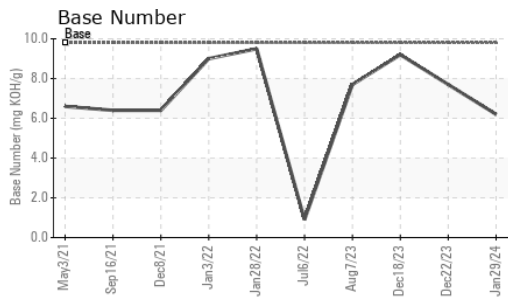
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>7</b>	5	9
Potassium	ppm	ASTM D5185m	>20	<b>36</b>	28	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	>6	<b>3.9</b>	2.6	0.1
Nitration	Abs/cm	*ASTM D7624	>20	<b>13.1</b>	11.3	4.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>28.3</b>	25.6	17.7
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	<1
Boron	ppm	ASTM D5185m	0	<b>3</b>	<1	18
Barium	ppm	ASTM D5185m	0	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m	60	<b>62</b>	61	61
Manganese	ppm	ASTM D5185m	0	<b>1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	1010	<b>979</b>	953	891
Calcium	ppm	ASTM D5185m	1070	<b>1077</b>	1084	983
Phosphorus	ppm	ASTM D5185m	1150	<b>1067</b>	999	985
Zinc	ppm	ASTM D5185m	1270	<b>1312</b>	1252	1198
Sulfur	ppm	ASTM D5185m	2060	<b>2799</b>	3161	3036
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>20.2</b>	18.7	13.1
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>6.2</b>	7.7	9.2
Visc @ 100°C	cSt	ASTM D445	15.4	<b>15.5</b>	14.9	14.4



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0108823 **Received** : 01 Feb 2024  
**Lab Number** : 06076582 **Diagnosed** : 02 Feb 2024  
**Unique Number** : 10858673 **Diagnostician** : Don Baldrige  
**Test Package** : FLEET

**GFL Environmental - 415 - Michigan East**  
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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)