



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

Area  
**(A60203)**  
Machine Id  
**425064**  
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>GFL0099273</b>	GFL0078289	GFL0083692
Sample Date		Client Info		<b>08 Jan 2024</b>	02 Jan 2024	04 Oct 2023
Machine Age	hrs	Client Info		<b>18121</b>	18098	17826
Oil Age	hrs	Client Info		<b>0</b>	0	17826
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>Changed</b>	Changed	Not Changd
Sample Status				<b>NORMAL</b>	NORMAL	ABNORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>165	<b>25</b>	19	33
Chromium	ppm	ASTM D5185m	>5	<b>&lt;1</b>	<1	2
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185m	>2	<b>0</b>	0	<1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>13</b>	12	5
Lead	ppm	ASTM D5185m	>150	<b>0</b>	<1	7
Copper	ppm	ASTM D5185m	>90	<b>1</b>	<1	3
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**

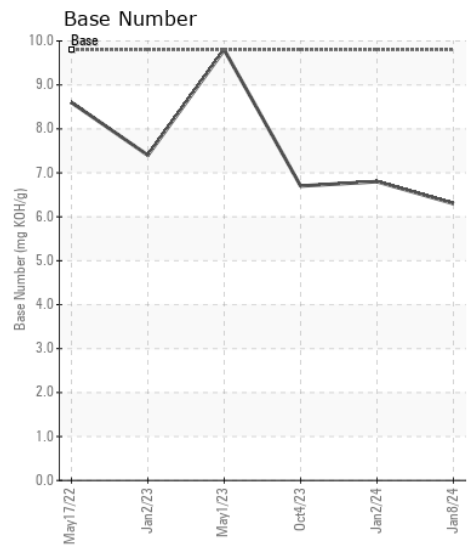
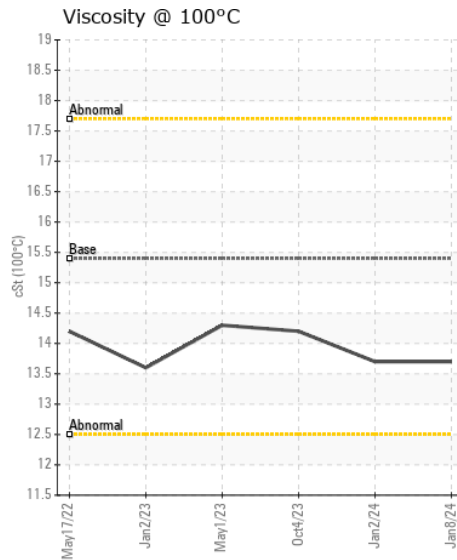
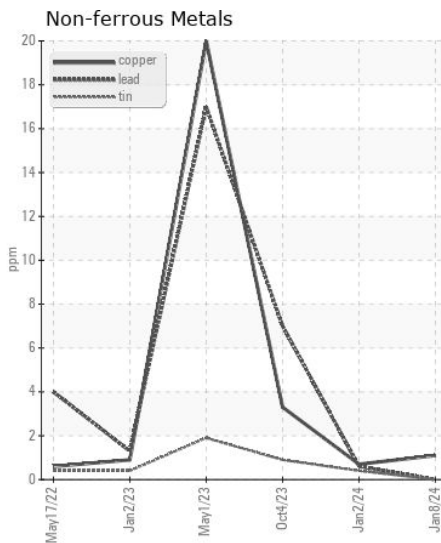
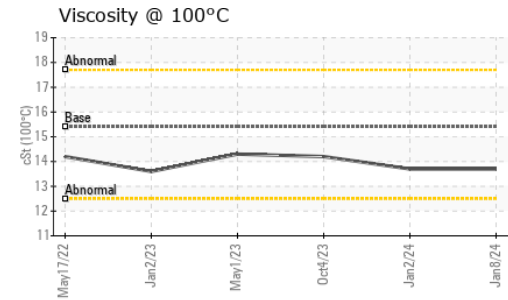
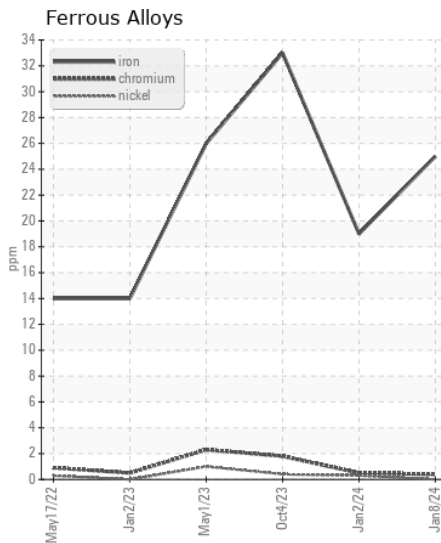
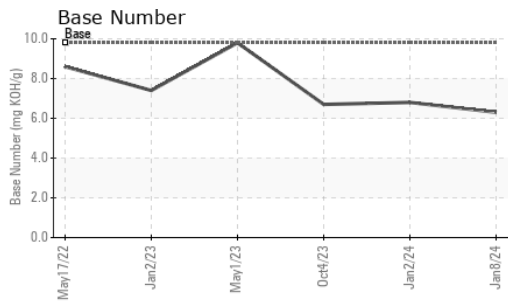
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>35	<b>4</b>	3	▲ 27
Potassium	ppm	ASTM D5185m	>20	<b>22</b>	18	6
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>0.4</b>	0.4	0.1
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.8</b>	9.5	10.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>22.2</b>	21.9	24.1
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>3</b>	5	5
Boron	ppm	ASTM D5185m	0	<b>1</b>	3	22
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	60	<b>65</b>	64	82
Manganese	ppm	ASTM D5185m	0	<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m	1010	<b>1016</b>	1060	587
Calcium	ppm	ASTM D5185m	1070	<b>1137</b>	1149	1712
Phosphorus	ppm	ASTM D5185m	1150	<b>1061</b>	1222	1116
Zinc	ppm	ASTM D5185m	1270	<b>1312</b>	1475	1345
Sulfur	ppm	ASTM D5185m	2060	<b>3162</b>	3310	3267
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>20.0</b>	19.0	20.8
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>6.3</b>	6.8	6.7
Visc @ 100°C	cSt	ASTM D445	15.4	<b>13.7</b>	13.7	14.2



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0099273 **Received** : 12 Jan 2024  
**Lab Number** : 06059896 **Diagnosed** : 16 Jan 2024  
**Unique Number** : 10831278 **Diagnostician** : Wes Davis  
**Test Package** : FLEET

**GFL Environmental - 846 - Mayfield Hauling**  
 3426 State Route 45  
 Mayfield, KY  
 US 42066  
 Contact: Jack Lindsey  
 jack.lindsey@gflenv.com  
 T: (270)970-3690  
 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)