



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



Area  
**(77J8TV)**  
Machine Id  
**921042-205212**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 15W40 (12 GAL)**

**RECOMMENDATION**

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0109206</b>	GFL0090149	GFL0051389
Sample Date		Client Info		<b>01 Feb 2024</b>	05 Oct 2023	11 Dec 2022
Machine Age	hrs	Client Info		<b>23746</b>	23232	23001
Oil Age	hrs	Client Info		<b>700</b>	600	600
Filter Age	hrs	Client Info		<b>700</b>	600	600
Oil Changed		Client Info		<b>Not Changd</b>	Changed	Changed
Filter Changed		Client Info		<b>Not Changd</b>	Changed	Not Changd
Sample Status				<b>NORMAL</b>	SEVERE	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>120	<b>15</b>	27	7
Chromium	ppm	ASTM D5185m	>20	<b>1</b>	<1	0
Nickel	ppm	ASTM D5185m	>5	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>3</b>	8	1
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	<1	0
Copper	ppm	ASTM D5185m	>330	<b>&lt;1</b>	3	<1
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	0	0
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**

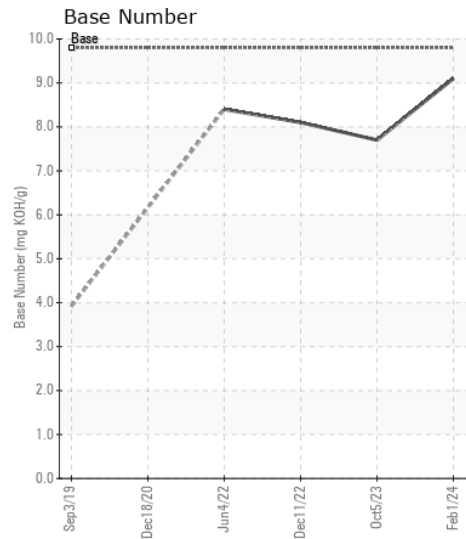
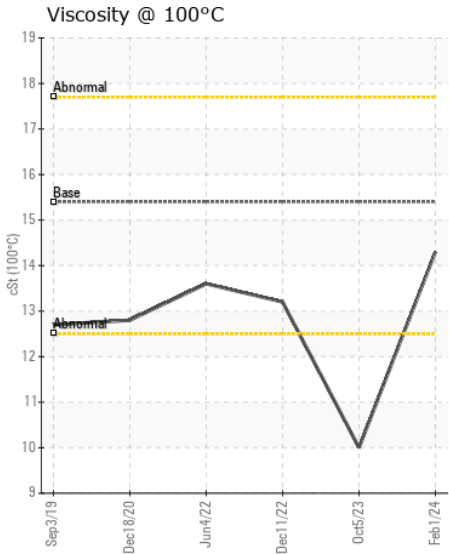
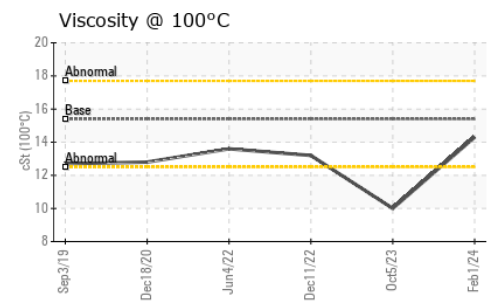
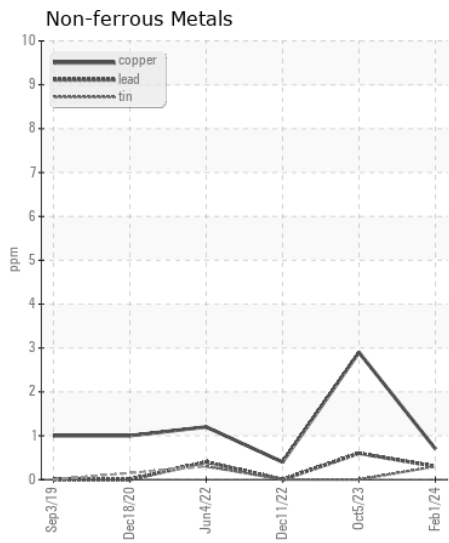
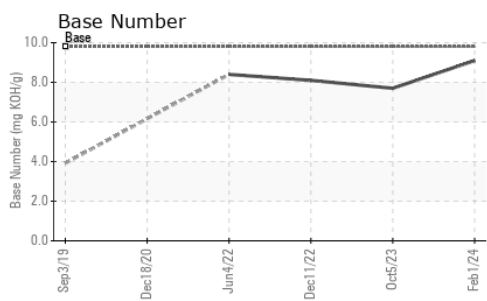
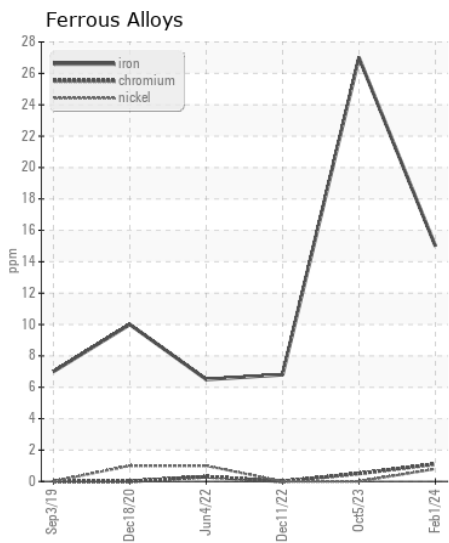
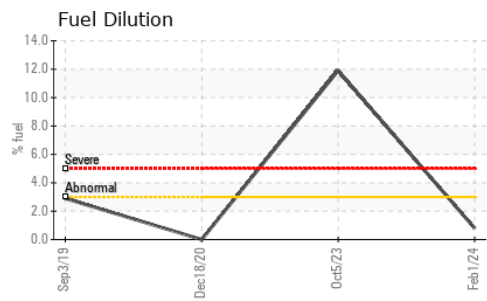
Fuel content negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>6</b>	9	2
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	7	3
Fuel	%	ASTM D3524	>3.0	<b>0.8</b>	11.9	<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>0.7</b>	0.9	0.2
Nitration	Abs/cm	*ASTM D7624	>20	<b>5.9</b>	7.7	9.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>18.6</b>	20.1	19.8
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>30</b>	41	34
Boron	ppm	ASTM D5185m	0	<b>&lt;1</b>	5	1
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	60	<b>66</b>	52	58
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	<1	0
Magnesium	ppm	ASTM D5185m	1010	<b>1012</b>	786	846
Calcium	ppm	ASTM D5185m	1070	<b>1099</b>	854	1027
Phosphorus	ppm	ASTM D5185m	1150	<b>1027</b>	859	953
Zinc	ppm	ASTM D5185m	1270	<b>1306</b>	1064	1122
Sulfur	ppm	ASTM D5185m	2060	<b>3052</b>	2923	3422
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>13.0</b>	15.5	16.1
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>9.1</b>	7.7	8.1
Visc @ 100°C	cSt	ASTM D445	15.4	<b>14.3</b>	10.0	13.2



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0109206 **Received** : 09 Feb 2024  
**Lab Number** : 06085235 **Tested** : 13 Feb 2024  
**Unique Number** : 10872680 **Diagnosed** : 13 Feb 2024 - Wes Davis  
**Test Package** : FLEET ( Additional Tests: PercentFuel )

**GFL Environmental - 822 - Springfield Hauling**  
 2120 West Bennett Street  
 Springfield, MO  
 US 65807  
 Contact: Dennis Moore  
 dennis.moore@gflenv.com  
 T: (417)403-3641  
 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)