



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

Machine Id  
**122036**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 15W40 (--- 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>GFL0105126</b>	GFL0090289	GFL0090252
Sample Date		Client Info		<b>09 Jan 2024</b>	05 Dec 2023	25 Oct 2023
Machine Age	mls	Client Info		<b>439764</b>	1813	24085
Oil Age	mls	Client Info		<b>1500</b>	150	600
Filter Age	mls	Client Info		<b>1500</b>	150	600
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	SEVERE	ABNORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>&lt;1</b>	15	▲ 130
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	2
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	11	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>2</b>	6	6
Lead	ppm	ASTM D5185m	>40	<b>0</b>	20	0
Copper	ppm	ASTM D5185m	>330	<b>0</b>	1	2
Tin	ppm	ASTM D5185m	>15	<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**

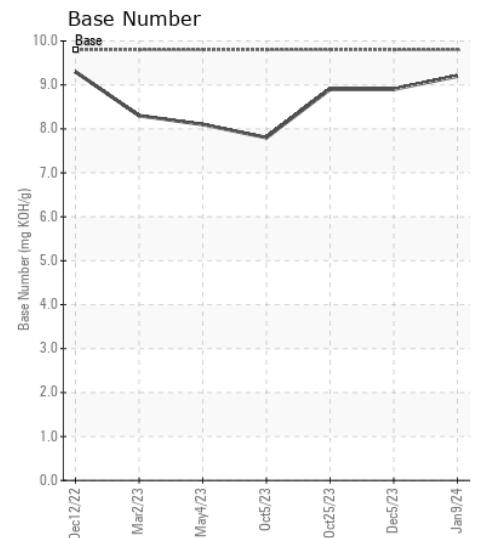
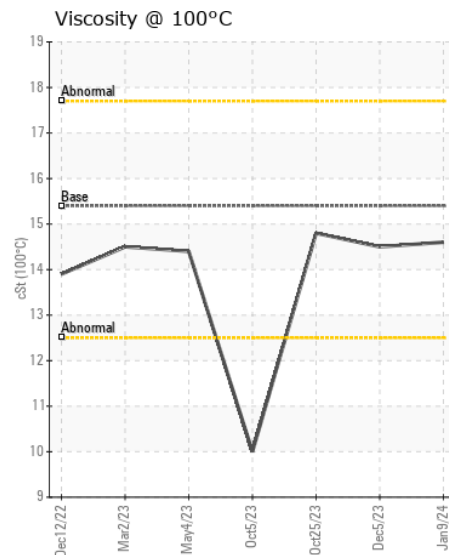
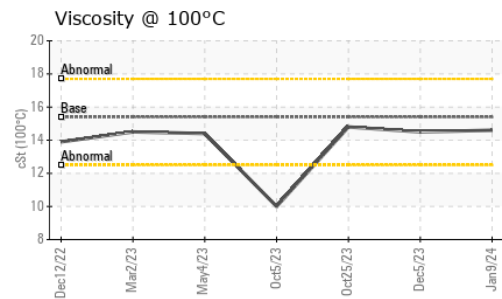
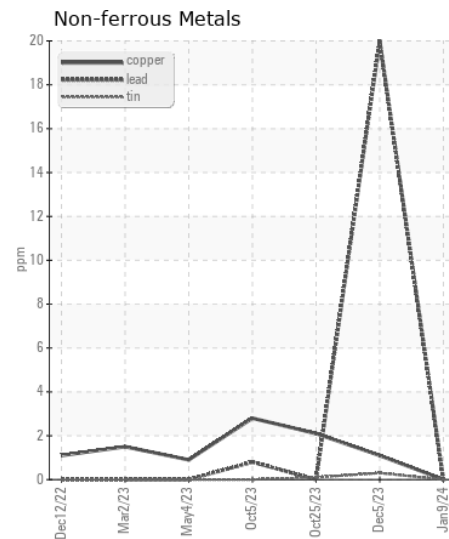
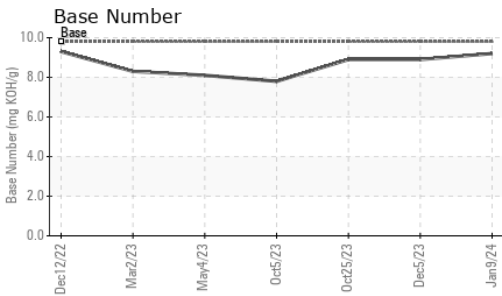
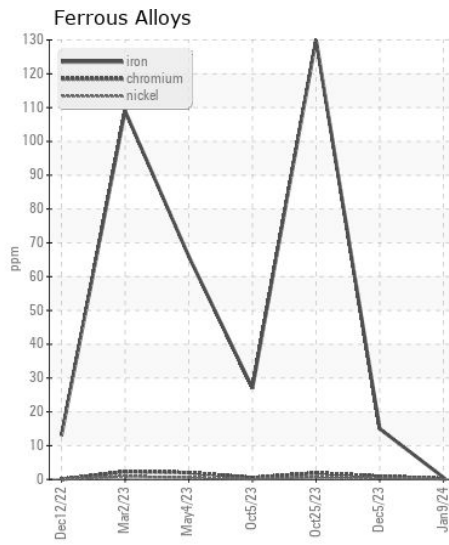
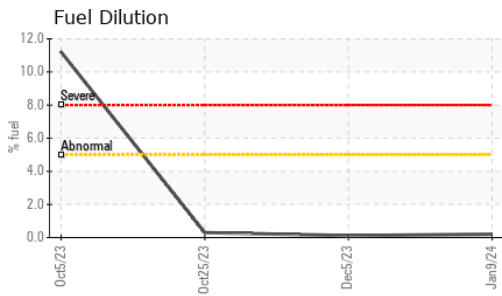
Fuel content negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>5</b>	8	9
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	▲ 896	15
Fuel	%	ASTM D3524	>5	<b>0.2</b>	◆ 0.12	0.3
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0</b>	0	1.8
Nitration	Abs/cm	*ASTM D7624	>20	<b>4.0</b>	4.0	10.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>17.2</b>	17.2	22.6
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>0</b>	▲ 368	71
Boron	ppm	ASTM D5185m	0	<b>1</b>	31	<1
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	60	<b>57</b>	130	63
Manganese	ppm	ASTM D5185m	0	<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m	1010	<b>952</b>	584	966
Calcium	ppm	ASTM D5185m	1070	<b>1057</b>	1339	1071
Phosphorus	ppm	ASTM D5185m	1150	<b>1060</b>	713	988
Zinc	ppm	ASTM D5185m	1270	<b>1193</b>	802	1238
Sulfur	ppm	ASTM D5185m	2060	<b>3503</b>	3402	2733
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>12.8</b>	12.7	16.8
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>9.2</b>	8.9	8.9
Visc @ 100°C	cSt	ASTM D445	15.4	<b>14.6</b>	14.5	14.8



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0105126 **Received** : 12 Jan 2024  
**Lab Number** : 06059911 **Diagnosed** : 16 Jan 2024  
**Unique Number** : 10831293 **Diagnostician** : Wes Davis  
**Test Package** : FLEET ( Additional Tests: PercentFuel )

**GFL Environmental - 821 - Ozarks Hauling**  
 33924 Olath Drive  
 Lebanon, MO  
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 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)