



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



Machine Id  
**729089-13135**  
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>GFL0085342</b>	GFL0085362	---
Sample Date		Client Info		<b>02 Jan 2024</b>	24 Aug 2023	---
Machine Age	hrs	Client Info		<b>923</b>	274	---
Oil Age	hrs	Client Info		<b>649</b>	274	---
Filter Age	hrs	Client Info		<b>0</b>	274	---
Oil Changed		Client Info		<b>Changed</b>	Changed	---
Filter Changed		Client Info		<b>Changed</b>	Changed	---
Sample Status				<b>NORMAL</b>	ABNORMAL	---

**WEAR**

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>80	<b>50</b>	54	---
Chromium	ppm	ASTM D5185m	>5	<b>1</b>	2	---
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	<1	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>30	<b>4</b>	3	---
Lead	ppm	ASTM D5185m	>30	<b>&lt;1</b>	0	---
Copper	ppm	ASTM D5185m	>150	<b>2</b>	4	---
Tin	ppm	ASTM D5185m	>5	<b>&lt;1</b>	0	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

**CONTAMINATION**

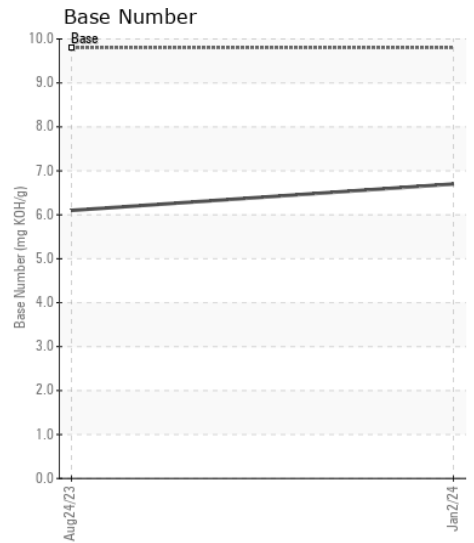
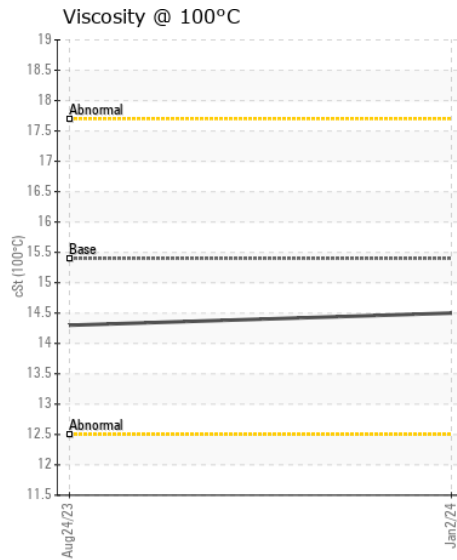
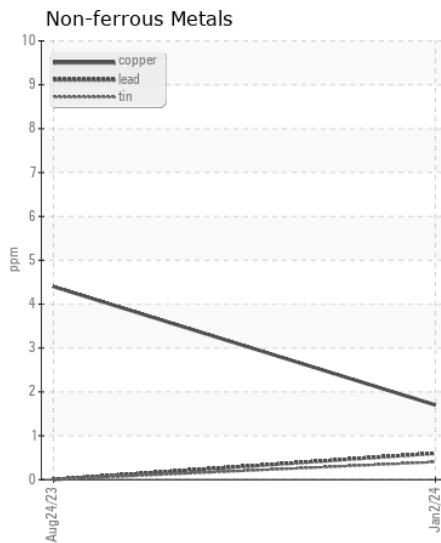
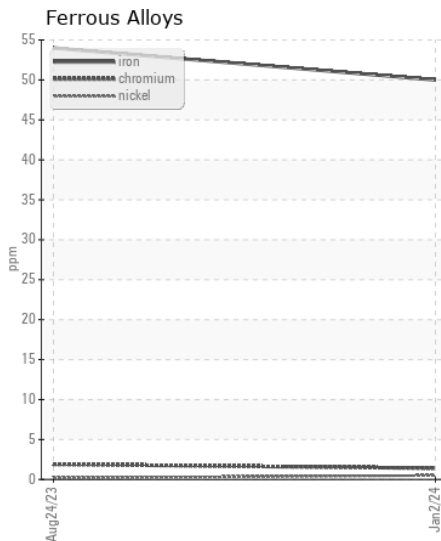
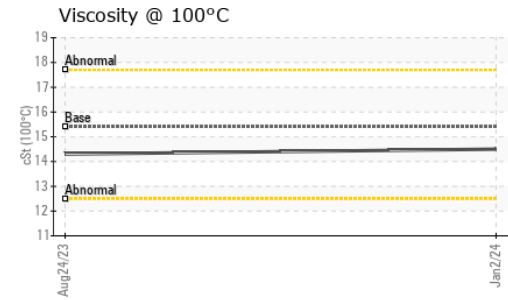
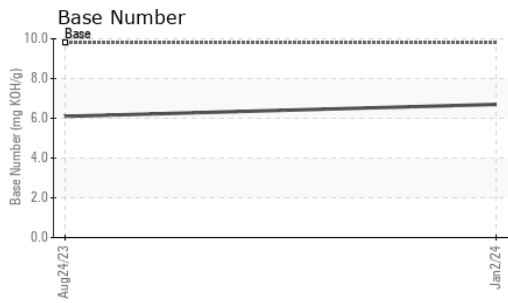
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>23</b>	▲ 82	---
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	<1	---
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol		WC Method		<b>NEG</b>	NEG	---
Soot %	%	*ASTM D7844	>3	<b>0.6</b>	0.7	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>10.8</b>	14.2	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>24.0</b>	28.9	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	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>7</b>	4	---
Boron	ppm	ASTM D5185m	0	<b>4</b>	0	---
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	60	<b>62</b>	56	---
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	1	---
Magnesium	ppm	ASTM D5185m	1010	<b>1044</b>	884	---
Calcium	ppm	ASTM D5185m	1070	<b>1102</b>	957	---
Phosphorus	ppm	ASTM D5185m	1150	<b>1168</b>	919	---
Zinc	ppm	ASTM D5185m	1270	<b>1420</b>	1160	---
Sulfur	ppm	ASTM D5185m	2060	<b>3181</b>	3156	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>24.5</b>	38.2	---
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>6.7</b>	6.1	---
Visc @ 100°C	cSt	ASTM D445	15.4	<b>14.5</b>	14.3	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0085342 **Received** : 08 Jan 2024  
**Lab Number** : 06054602 **Diagnosed** : 09 Jan 2024  
**Unique Number** : 10820551 **Diagnostician** : Wes Davis  
**Test Package** : FLEET

**GFL Environmental - 958A - Chillicothe Wigand**  
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 Chillicothe, IL  
 US 61523  
 Contact: Bryan Link  
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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)