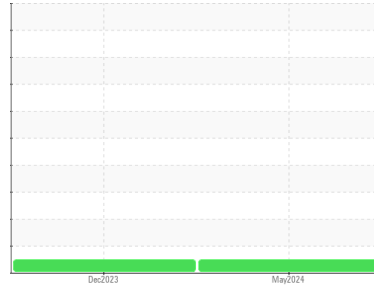




# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Machine Id  
**427179 - SW4718**

Component  
**Diesel Engine**

Fluid  
**PETRO CANADA DURON SHP 15W40 (--- GAL)**

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

#### 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.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>GFL0066546</b>	GFL0066524	---
Sample Date	Client Info			<b>20 May 2024</b>	20 Dec 2023	---
Machine Age	mls	Client Info		<b>403577</b>	385428	---
Oil Age	mls	Client Info		<b>385428</b>	385428	---
Oil Changed	Client Info			<b>Changed</b>	Not Changd	---
Sample Status				<b>NORMAL</b>	NORMAL	---

CONTAMINATION		method	limit/base	current	history1	history2
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	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	<b>8</b>	7	---
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	---
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	0	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Silver	ppm	ASTM D5185m	>3	<b>1</b>	0	---
Aluminum	ppm	ASTM D5185m	>20	<b>2</b>	2	---
Lead	ppm	ASTM D5185m	>40	<b>4</b>	0	---
Copper	ppm	ASTM D5185m	>330	<b>1</b>	0	---
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	0	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Cadmium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<b>19</b>	181	---
Barium	ppm	ASTM D5185m	0	<b>&lt;1</b>	0	---
Molybdenum	ppm	ASTM D5185m	60	<b>47</b>	46	---
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	0	---
Magnesium	ppm	ASTM D5185m	1010	<b>46</b>	212	---
Calcium	ppm	ASTM D5185m	1070	<b>2400</b>	1836	---
Phosphorus	ppm	ASTM D5185m	1150	<b>1045</b>	946	---
Zinc	ppm	ASTM D5185m	1270	<b>1253</b>	1181	---
Sulfur	ppm	ASTM D5185m	2060	<b>3498</b>	3447	---

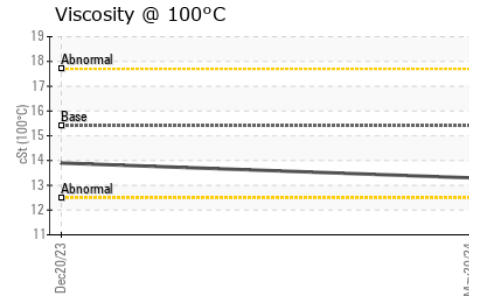
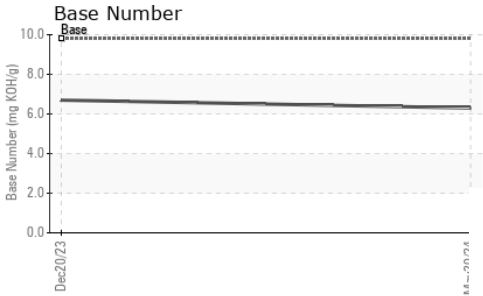
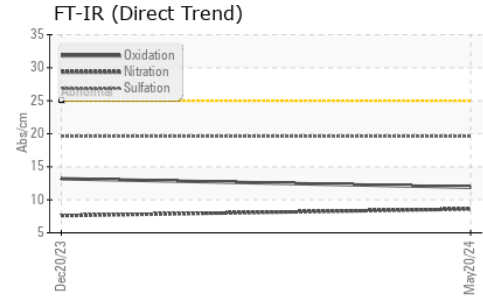
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>10</b>	5	---
Sodium	ppm	ASTM D5185m		<b>5</b>	3	---
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	0	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	<b>0.4</b>	0.3	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.6</b>	7.6	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>19.6</b>	19.6	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>11.9</b>	13.2	---
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>6.3</b>	6.7	---



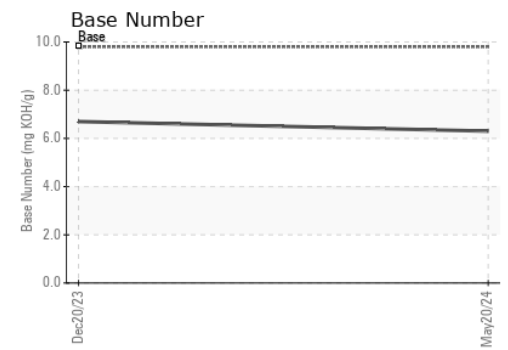
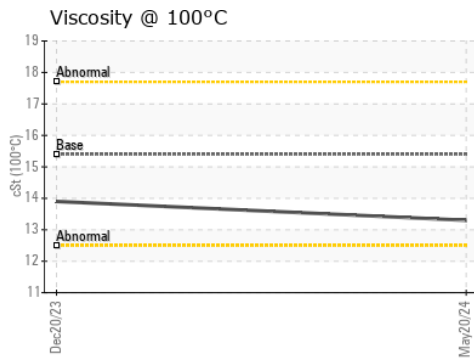
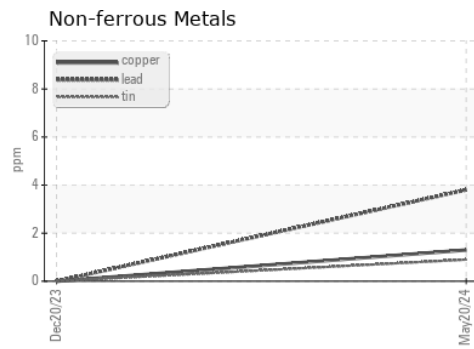
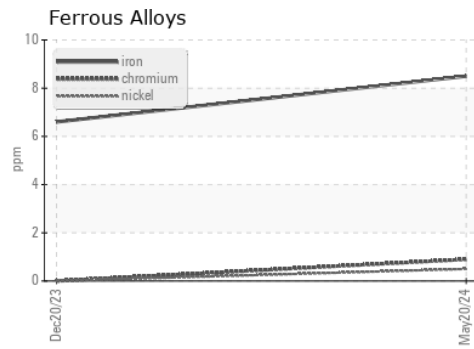
# OIL ANALYSIS REPORT



PARAMETER	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	<b>13.3</b>	13.9

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0066546      **Received** : 28 May 2024  
**Lab Number** : **06191861**      **Tested** : 29 May 2024  
**Unique Number** : 11048613      **Diagnosed** : 30 May 2024 - Sean Felton  
**Test Package** : FLEET

**GFL Environmental - 977 - Montgomery Hauling**  
 17851 Highway 105 E  
 Conroe, TX  
 US 77306  
 Contact: CHRIS YOUNG  
 christophery@gflenv.com

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)