



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



Machine Id  
**568M**  
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>GFL0108958</b>	GFL0101508	GFL0063968
Sample Date		Client Info		<b>24 Feb 2024</b>	29 Nov 2023	06 Dec 2022
Machine Age	hrs	Client Info		<b>11086</b>	0	9139
Oil Age	hrs	Client Info		<b>9139</b>	0	0
Filter Age	hrs	Client Info		<b>9139</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>90	<b>19</b>	36	56
Chromium	ppm	ASTM D5185m	>20	<b>1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185m	>2	<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>3</b>	4	5
Lead	ppm	ASTM D5185m	>40	<b>0</b>	0	2
Copper	ppm	ASTM D5185m	>330	<b>&lt;1</b>	2	12
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

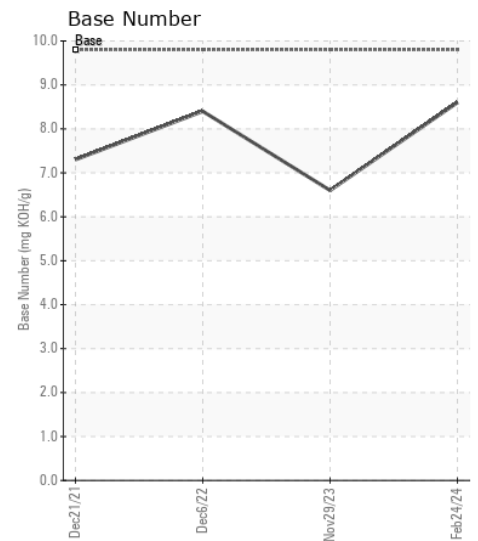
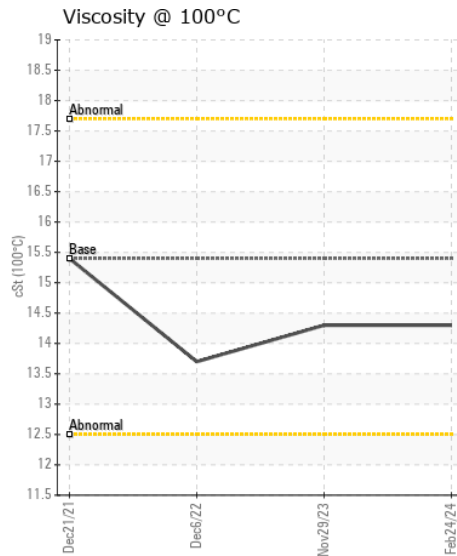
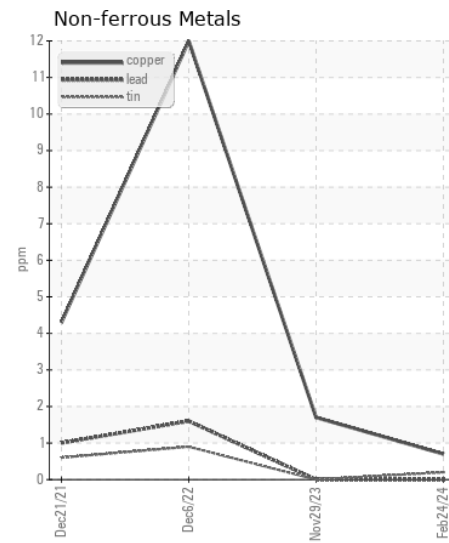
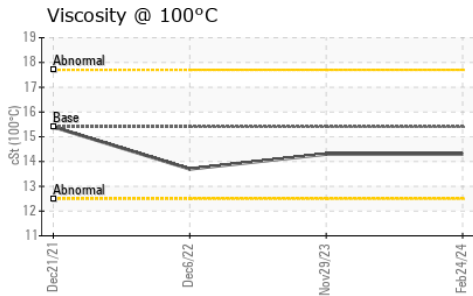
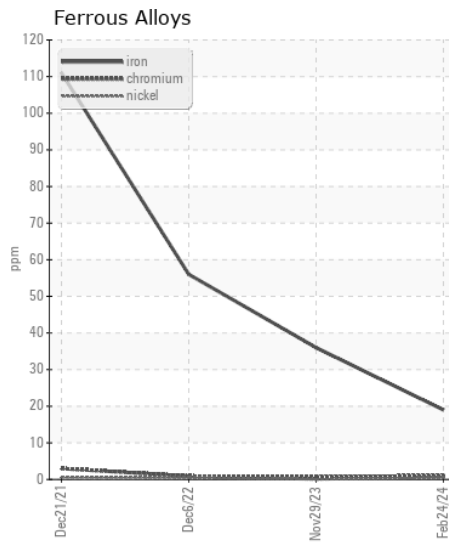
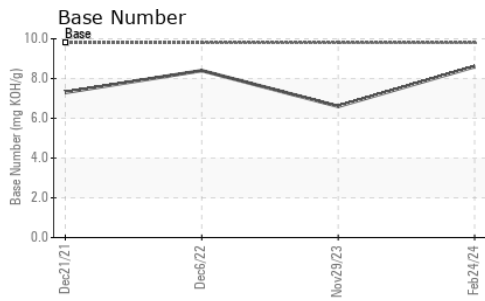
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>3</b>	3	9
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	10	5
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	>6	<b>0.1</b>	0.3	0.4
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.2</b>	9.8	10.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>19.2</b>	22.9	22.3
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>6</b>	2	3
Boron	ppm	ASTM D5185m	0	<b>1</b>	<1	38
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	60	<b>61</b>	67	123
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185m	1010	<b>1017</b>	959	658
Calcium	ppm	ASTM D5185m	1070	<b>1141</b>	1182	1690
Phosphorus	ppm	ASTM D5185m	1150	<b>1137</b>	1057	827
Zinc	ppm	ASTM D5185m	1270	<b>1363</b>	1314	1070
Sulfur	ppm	ASTM D5185m	2060	<b>3427</b>	2914	3011
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>15.6</b>	20.4	20.0
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>8.6</b>	6.6	8.4
Visc @ 100°C	cSt	ASTM D445	15.4	<b>14.3</b>	14.3	13.7



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0108958 **Received** : 28 Feb 2024  
**Lab Number** : 06102773 **Tested** : 29 Feb 2024  
**Unique Number** : 10901003 **Diagnosed** : 29 Feb 2024 - Wes Davis  
**Test Package** : FLEET

**GFL Environmental - 415 - Michigan East**  
 6200 Elmridge  
 Sterling Heights, MI  
 US 48313  
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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)