



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

Machine Id  
**352035**  
 Component  
**Gasoline Engine**  
 Fluid  
**PETRO CANADA DURON UHP 5W30 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0092885</b>	GFL0097479	GFL0067576
Sample Date		Client Info		<b>25 Jan 2024</b>	11 Dec 2023	30 May 2023
Machine Age	mls	Client Info		<b>197637</b>	195330	186430
Oil Age	mls	Client Info		<b>186430</b>	0	5000
Filter Age	mls	Client Info		<b>0</b>	0	5000
Oil Changed		Client Info		<b>N/A</b>	N/A	Changed
Filter Changed		Client Info		<b>N/A</b>	N/A	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>150	<b>14</b>	7	21
Chromium	ppm	ASTM D5185m	>20	<b>1</b>	<1	1
Nickel	ppm	ASTM D5185m	>5	<b>&lt;1</b>	0	1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>40	<b>3</b>	1	3
Lead	ppm	ASTM D5185m	>50	<b>0</b>	0	1
Copper	ppm	ASTM D5185m	>155	<b>&lt;1</b>	<1	0
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

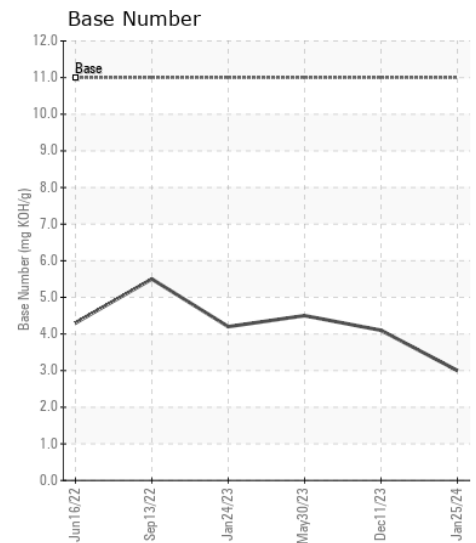
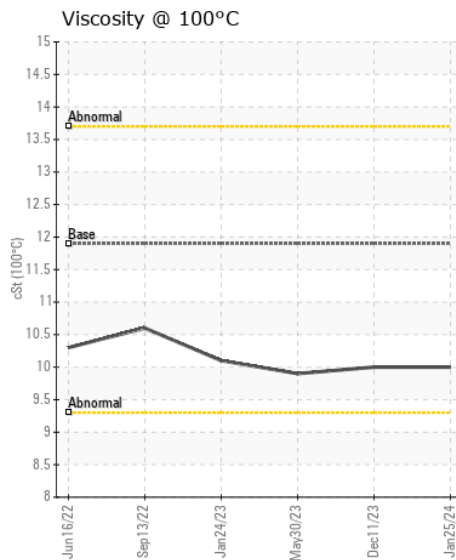
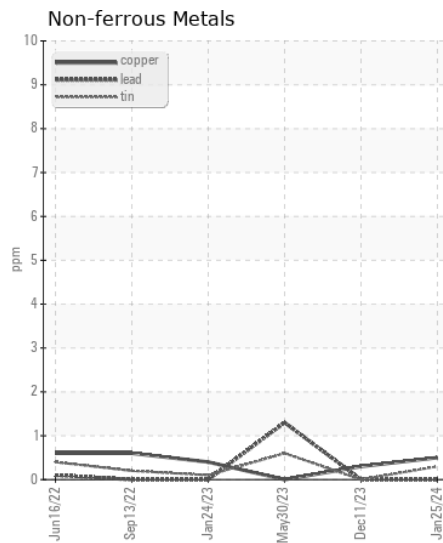
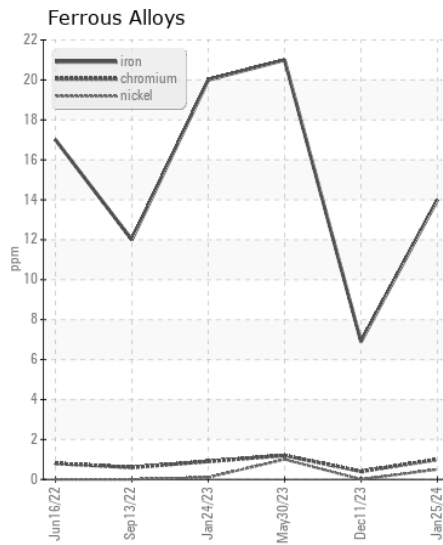
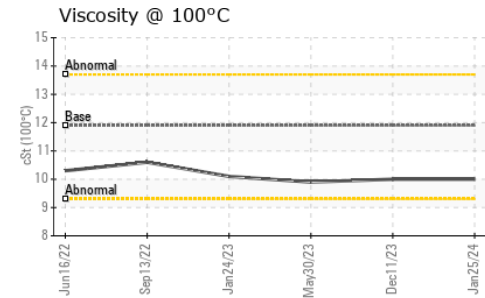
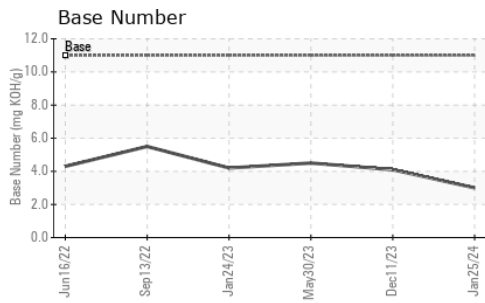
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>30	<b>10</b>	8	11
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	<1	3
Fuel		WC Method	>4.0	<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		<b>0</b>	0	0
Nitration	Abs/cm	*ASTM D7624	>20	<b>11.2</b>	9.5	10.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>21.6</b>	18.7	23.3
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	>400	<b>2</b>	0	2
Boron	ppm	ASTM D5185m	0	<b>15</b>	17	30
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	64	<b>69</b>	62	141
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185m	1160	<b>435</b>	379	574
Calcium	ppm	ASTM D5185m	820	<b>979</b>	966	1099
Phosphorus	ppm	ASTM D5185m	1160	<b>662</b>	582	751
Zinc	ppm	ASTM D5185m	1260	<b>731</b>	694	951
Sulfur	ppm	ASTM D5185m	3000	<b>2168</b>	1507	2382
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>15.5</b>	12.1	16.7
Base Number (BN)	mg KOH/g	ASTM D2896	11.0	<b>3.0</b>	4.1	4.5
Visc @ 100°C	cSt	ASTM D445	11.9	<b>10.0</b>	10.0	9.9



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0092885  
**Lab Number** : 06105740  
**Unique Number** : 10903970  
**Test Package** : FLEET

**Received** : 01 Mar 2024  
**Tested** : 02 Mar 2024  
**Diagnosed** : 04 Mar 2024 - Sean Felton

**GFL Environmental - 641 - Alpena**  
 1241 KING SETTLEMENT RD  
 ALPENA, MI  
 US 49707

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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)