



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>GFL0116016</b>	GFL0116033	GFL0092885
Sample Date		Client Info		<b>16 May 2024</b>	04 Apr 2024	25 Jan 2024
Machine Age	mls	Client Info		<b>204704</b>	201953	197637
Oil Age	mls	Client Info		<b>186430</b>	186430	186430
Filter Age	mls	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>150	<b>21</b>	14	14
Chromium	ppm	ASTM D5185m	>20	<b>2</b>	0	1
Nickel	ppm	ASTM D5185m	>5	<b>1</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m	>2	<b>1</b>	0	0
Aluminum	ppm	ASTM D5185m	>40	<b>4</b>	<1	3
Lead	ppm	ASTM D5185m	>50	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185m	>155	<b>6</b>	3	<1
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

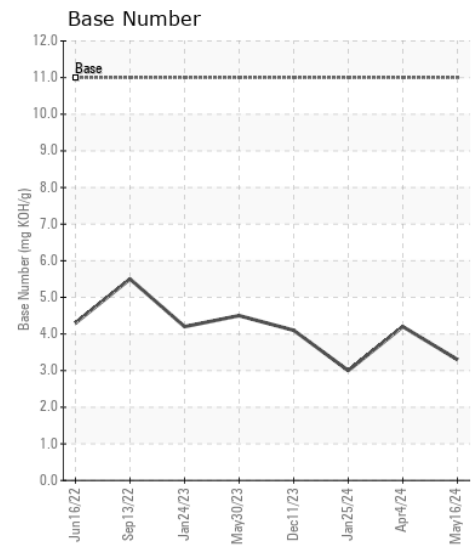
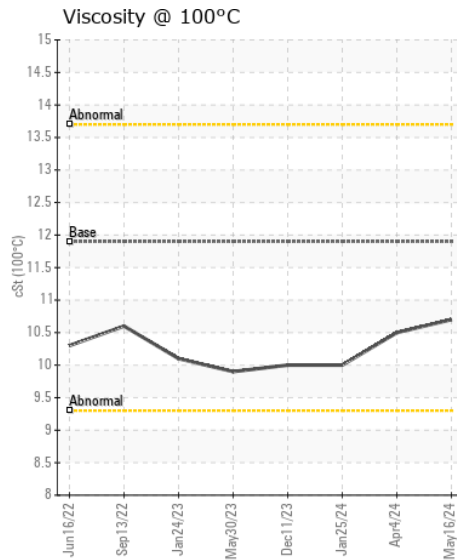
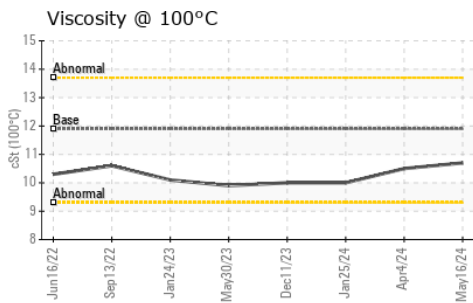
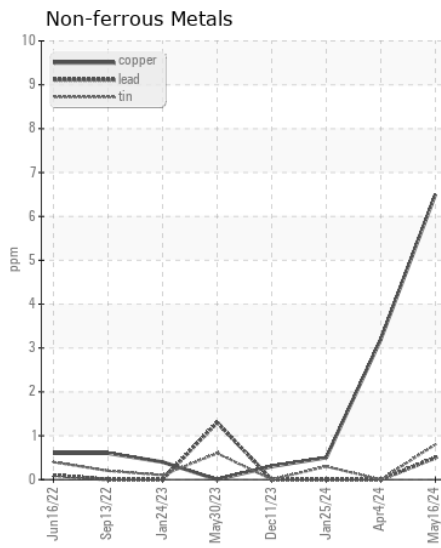
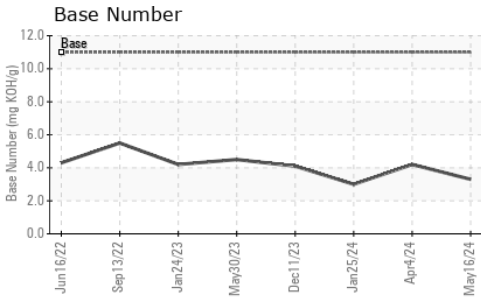
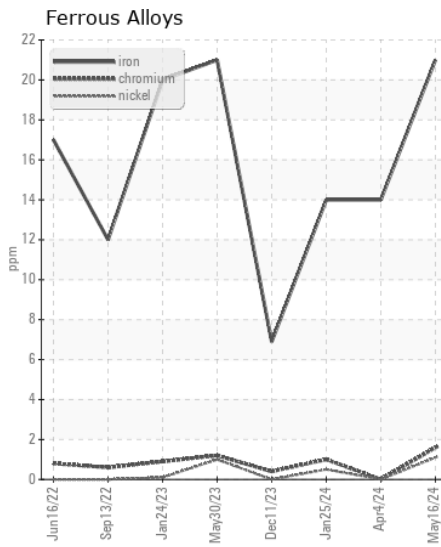
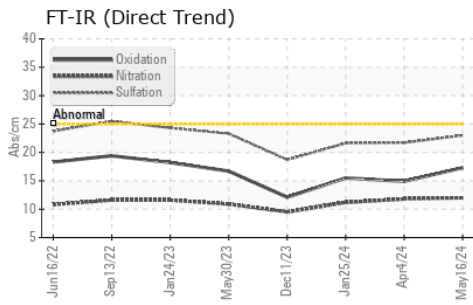
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>30	<b>8</b>	6	10
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	0	1
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>0.1</b>	0.1	0
Nitration	Abs/cm	*ASTM D7624	>20	<b>12.0</b>	11.8	11.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>23.0</b>	21.7	21.6
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	>400	<b>3</b>	<1	2
Boron	ppm	ASTM D5185m	0	<b>11</b>	11	15
Barium	ppm	ASTM D5185m	0	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m	64	<b>67</b>	67	69
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185m	1160	<b>424</b>	499	435
Calcium	ppm	ASTM D5185m	820	<b>1055</b>	1143	979
Phosphorus	ppm	ASTM D5185m	1160	<b>576</b>	709	662
Zinc	ppm	ASTM D5185m	1260	<b>700</b>	766	731
Sulfur	ppm	ASTM D5185m	3000	<b>1963</b>	2631	2168
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>17.3</b>	14.9	15.5
Base Number (BN)	mg KOH/g	ASTM D2896	11.0	<b>3.3</b>	4.2	3.0
Visc @ 100°C	cSt	ASTM D445	11.9	<b>10.7</b>	10.5	10.0



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0116016  
**Lab Number** : 06191881  
**Unique Number** : 11048633  
**Test Package** : FLEET

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

Contact: DYLAN TOLAN  
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 T: (989)854-7203

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)

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