



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

Area  
**(YA139895) GFL035**

Machine Id  
**3775**

Component  
**Diesel Engine**

Fluid  
**PETRO CANADA DURON SHP 10W30 (36 QTS)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0085231</b>	GFL0071616	GFL0071545
Sample Date		Client Info		<b>11 Jan 2024</b>	30 Aug 2023	21 Jun 2023
Machine Age	hrs	Client Info		<b>8193</b>	8193	8193
Oil Age	hrs	Client Info		<b>600</b>	600	600
Filter Age	hrs	Client Info		<b>600</b>	600	600
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>5</b>	8	14
Chromium	ppm	ASTM D5185m	>20	<b>0</b>	<1	2
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	<1	1
Titanium	ppm	ASTM D5185m	>2	<b>0</b>	0	2
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	1
Aluminum	ppm	ASTM D5185m	>20	<b>2</b>	1	5
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	<1	7
Copper	ppm	ASTM D5185m	>330	<b>0</b>	5	2
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	2
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**

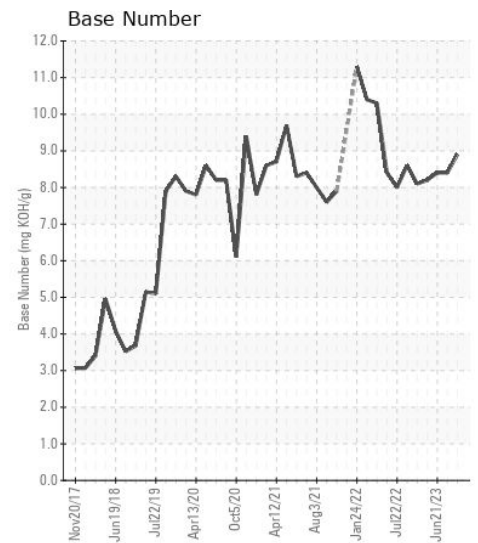
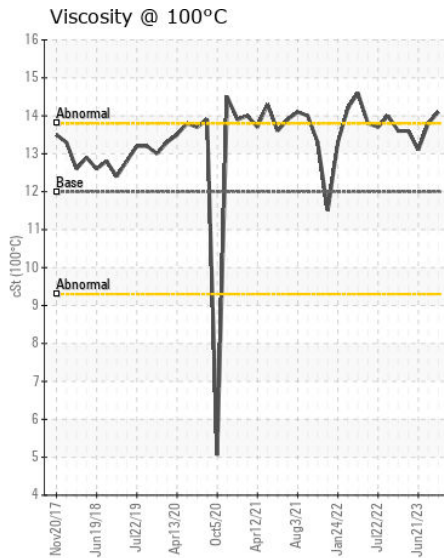
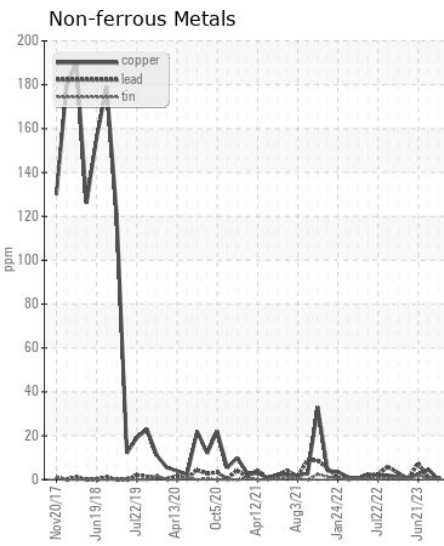
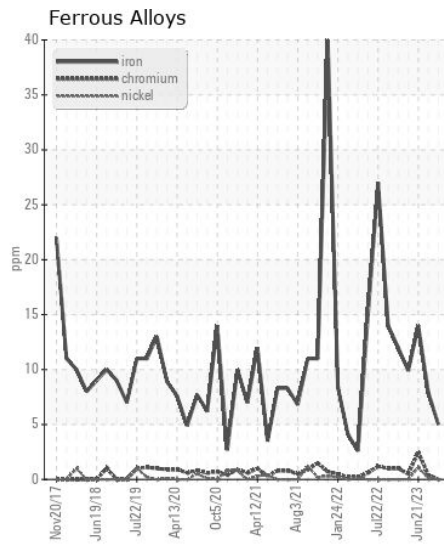
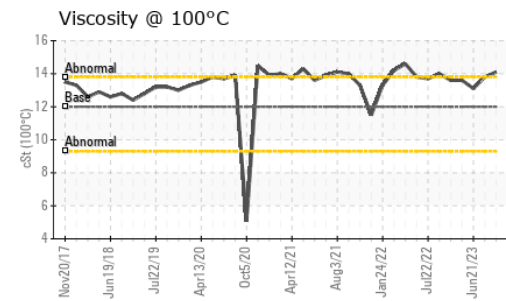
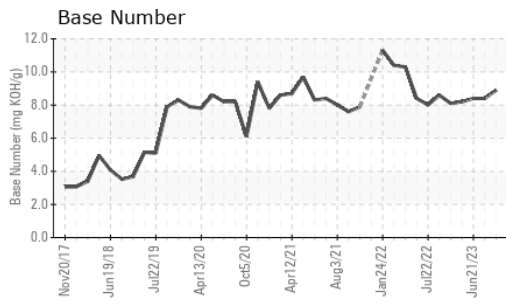
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>6</b>	5	7
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	3	6
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>0.2</b>	0.3	0.5
Nitration	Abs/cm	*ASTM D7624	>20	<b>5.8</b>	7.7	10.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>18.3</b>	19.5	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>0</b>	1	5
Boron	ppm	ASTM D5185m	2	<b>5</b>	6	2
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	18
Molybdenum	ppm	ASTM D5185m	50	<b>59</b>	60	49
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	<1	2
Magnesium	ppm	ASTM D5185m	950	<b>911</b>	863	734
Calcium	ppm	ASTM D5185m	1050	<b>1041</b>	1064	812
Phosphorus	ppm	ASTM D5185m	995	<b>1070</b>	994	777
Zinc	ppm	ASTM D5185m	1180	<b>1252</b>	1171	959
Sulfur	ppm	ASTM D5185m	2600	<b>3143</b>	3165	2651
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>13.6</b>	15.1	18.3
Base Number (BN)	mg KOH/g	ASTM D2896		<b>8.9</b>	8.4	8.4
Visc @ 100°C	cSt	ASTM D445	12.00	<b>14.1</b>	13.8	13.1



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0085231 **Received** : 16 Jan 2024  
**Lab Number** : 06060832 **Diagnosed** : 17 Jan 2024  
**Unique Number** : 10832214 **Diagnostician** : Jonathan Hester  
**Test Package** : FLEET

**GFL Environmental - 035 - Greensboro**  
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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)