



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

Machine Id  
**228076**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 15W40 (--- LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0107003</b>	GFL0094252	GFL0085402
Sample Date		Client Info		<b>07 Feb 2024</b>	02 Nov 2023	21 Jul 2023
Machine Age	hrs	Client Info		<b>8418</b>	8050	7352
Oil Age	hrs	Client Info		<b>368</b>	698	7352
Filter Age	hrs	Client Info		<b>8418</b>	698	7352
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	>110	<b>20</b>	18	7
Chromium	ppm	ASTM D5185m	>4	<b>0</b>	<1	0
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>25	<b>&lt;1</b>	3	2
Lead	ppm	ASTM D5185m	>45	<b>0</b>	<1	0
Copper	ppm	ASTM D5185m	>85	<b>0</b>	1	<1
Tin	ppm	ASTM D5185m	>4	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

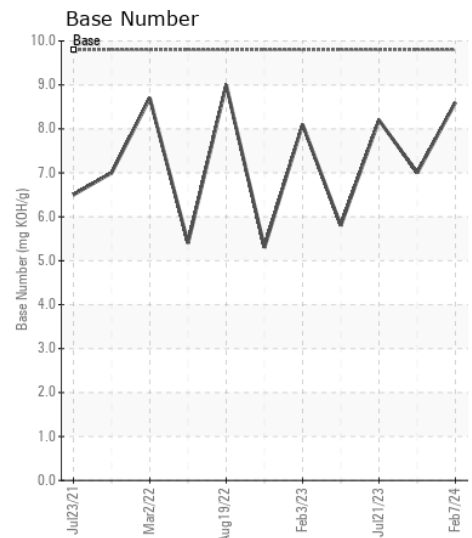
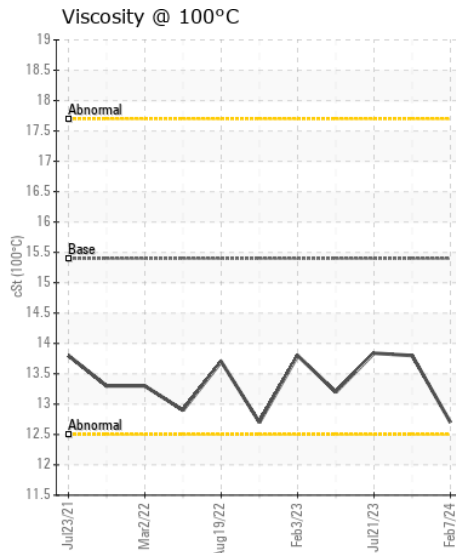
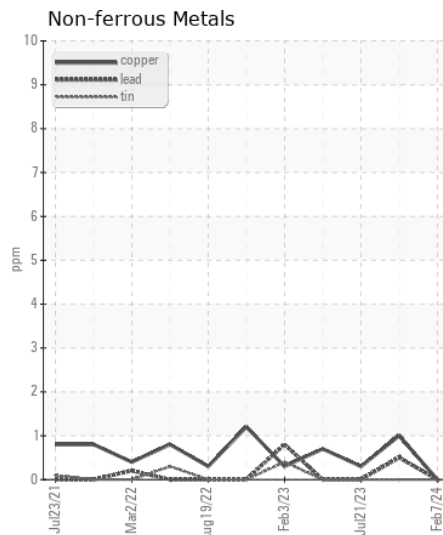
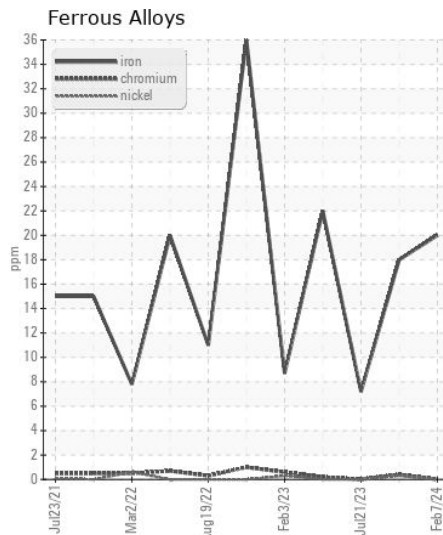
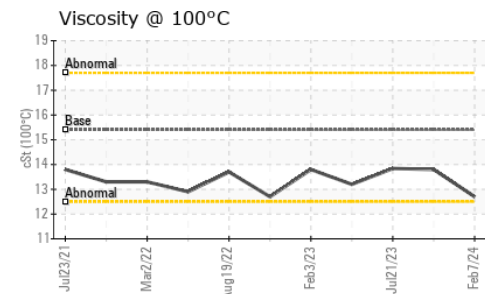
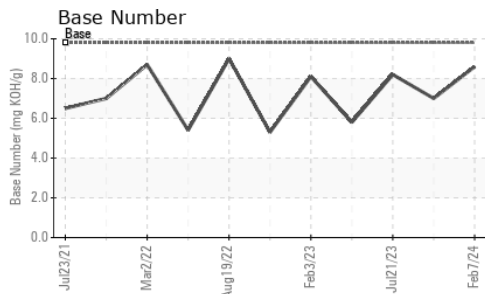
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>30	<b>2</b>	4	0
Potassium	ppm	ASTM D5185m	>20	<b>6</b>	4	3
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	1.5
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>1.5</b>	0.3	0.1
Nitration	Abs/cm	*ASTM D7624	>20	<b>10.2</b>	8.9	6.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>20.8</b>	20.1	18.3
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>15</b>	0	0
Boron	ppm	ASTM D5185m	0	<b>&lt;1</b>	3	4
Barium	ppm	ASTM D5185m	0	<b>0</b>	5	2
Molybdenum	ppm	ASTM D5185m	60	<b>56</b>	65	62
Manganese	ppm	ASTM D5185m	0	<b>0</b>	<1	0
Magnesium	ppm	ASTM D5185m	1010	<b>885</b>	845	831
Calcium	ppm	ASTM D5185m	1070	<b>1071</b>	1153	1149
Phosphorus	ppm	ASTM D5185m	1150	<b>1003</b>	1040	1006
Zinc	ppm	ASTM D5185m	1270	<b>1202</b>	1220	1189
Sulfur	ppm	ASTM D5185m	2060	<b>2973</b>	2681	3261
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>16.6</b>	17.4	15.0
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>8.6</b>	7.0	8.2
Visc @ 100°C	cSt	ASTM D445	15.4	<b>12.7</b>	13.8	13.84



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
 Sample No. : GFL0107003  
 Lab Number : 06085653  
 Unique Number : 10873098  
 Test Package : FLEET

Received : 12 Feb 2024  
 Tested : 12 Feb 2024  
 Diagnosed : 12 Feb 2024 - Wes Davis

GFL Environmental - 882 - Gainesville  
 5002 SW 41st Blvd  
 Gainesville, FL  
 US 32608  
 Contact: ROBERT CLARK  
 robert.clark@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)

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F: