



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

Machine Id  
**CUMMINS 10862**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 15W40 (7 GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0109106</b>	GFL0086252	GFL0086270
Sample Date		Client Info		<b>12 Jan 2024</b>	20 Dec 2023	09 Aug 2023
Machine Age	hrs	Client Info		<b>0</b>	14717	14133
Oil Age	hrs	Client Info		<b>0</b>	14717	14133
Filter Age	hrs	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	ABNORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>75	<b>2</b>	11	6
Chromium	ppm	ASTM D5185m	>5	<b>0</b>	<1	0
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>15	<b>1</b>	3	<1
Lead	ppm	ASTM D5185m	>25	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185m	>100	<b>&lt;1</b>	2	<1
Tin	ppm	ASTM D5185m	>4	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

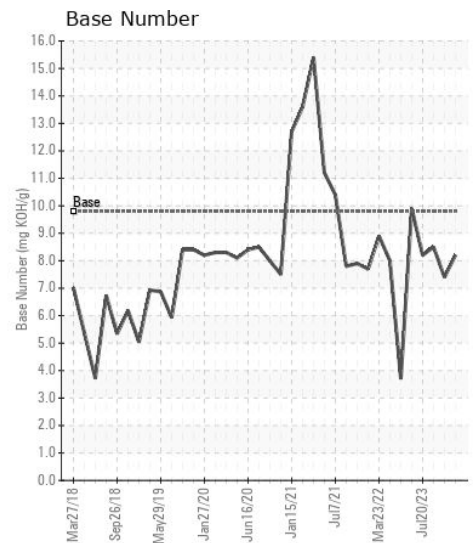
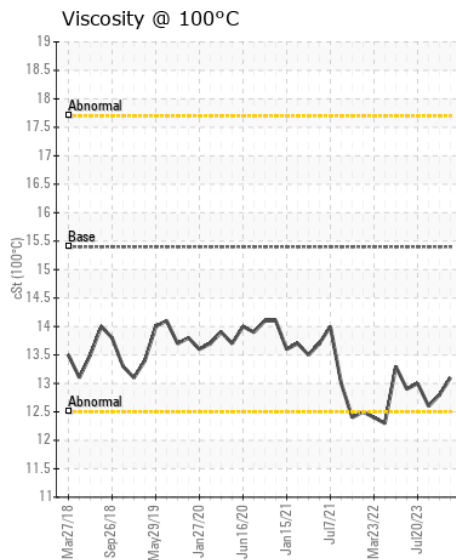
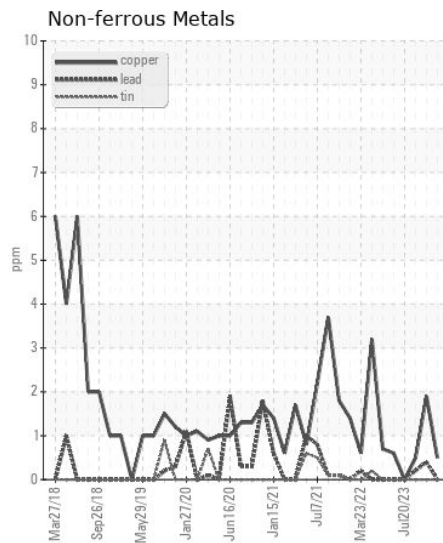
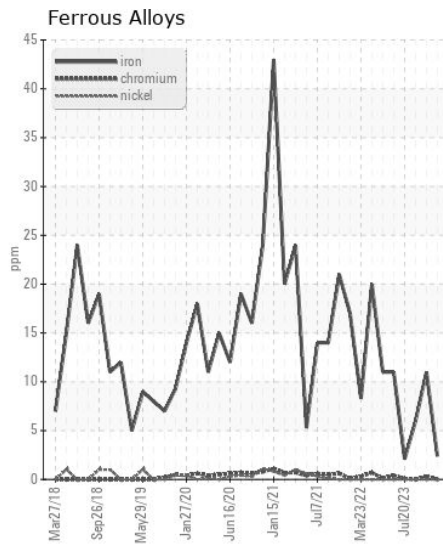
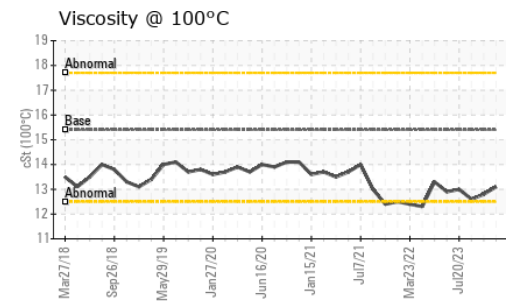
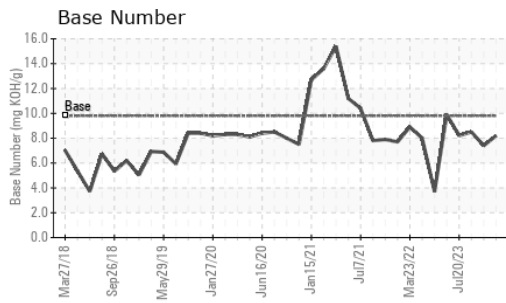
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>4</b>	14	5
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	4	▲ 152
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>	0.4	0.3
Nitration	Abs/cm	*ASTM D7624	>20	<b>4.7</b>	9.0	6.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>16.6</b>	19.2	16.9
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>2</b>	11	▲ 126
Boron	ppm	ASTM D5185m	0	<b>24</b>	63	15
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	2
Molybdenum	ppm	ASTM D5185m	60	<b>62</b>	88	87
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	3	0
Magnesium	ppm	ASTM D5185m	1010	<b>820</b>	644	743
Calcium	ppm	ASTM D5185m	1070	<b>1166</b>	1270	1140
Phosphorus	ppm	ASTM D5185m	1150	<b>998</b>	781	928
Zinc	ppm	ASTM D5185m	1270	<b>1215</b>	920	1125
Sulfur	ppm	ASTM D5185m	2060	<b>3262</b>	2886	3148
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>11.7</b>	16.5	12.0
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>8.2</b>	7.4	8.5
Visc @ 100°C	cSt	ASTM D445	15.4	<b>13.1</b>	12.8	12.6



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0109106 **Received** : 19 Jan 2024  
**Lab Number** : 06065441 **Diagnosed** : 22 Jan 2024  
**Unique Number** : 10836823 **Diagnostician** : Wes Davis  
**Test Package** : FLEET

**GFL Environmental - 009 - Fairburn**  
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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)