



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



Machine Id  
**759M**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 15W40 (36 GAL)**

**RECOMMENDATION**

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0110064</b>	GFL0084949	GFL0085033
Sample Date		Client Info		<b>08 Feb 2024</b>	25 Sep 2023	17 Aug 2023
Machine Age	hrs	Client Info		<b>18945</b>	17954	17618
Oil Age	hrs	Client Info		<b>991</b>	17954	17618
Filter Age	hrs	Client Info		<b>0</b>	17954	0
Oil Changed		Client Info		<b>Not Chngd</b>	Changed	Changed
Filter Changed		Client Info		<b>Not Chngd</b>	Changed	Changed
Sample Status				<b>ABNORMAL</b>	ABNORMAL	NORMAL

**WEAR**

Cylinder, crank, or cam shaft wear is indicated.

Iron	ppm	ASTM D5185m	>75	<b>▲ 93</b>	9	44
Chromium	ppm	ASTM D5185m	>5	<b>2</b>	<1	2
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185m	>2	<b>0</b>	0	<1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>15	<b>14</b>	2	10
Lead	ppm	ASTM D5185m	>25	<b>28</b>	<1	11
Copper	ppm	ASTM D5185m	>100	<b>7</b>	4	3
Tin	ppm	ASTM D5185m	>4	<b>3</b>	<1	1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

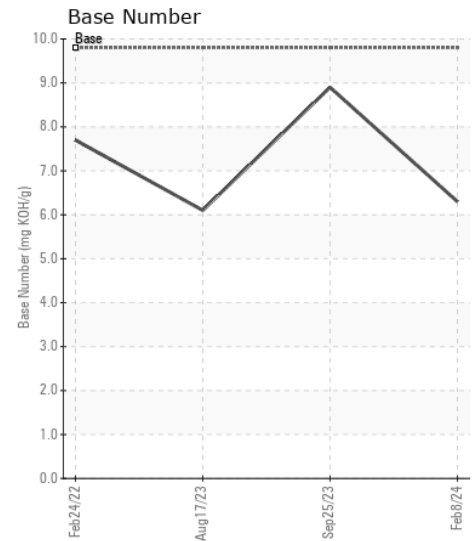
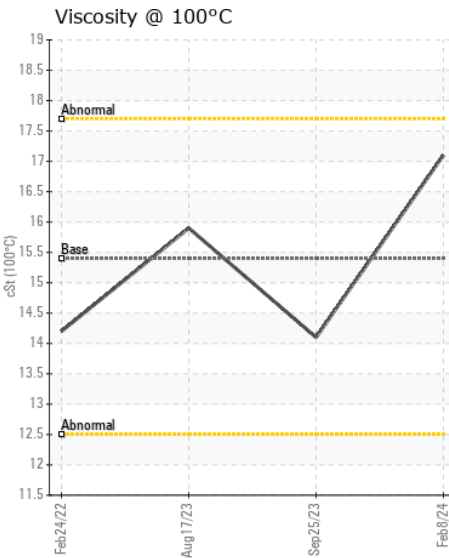
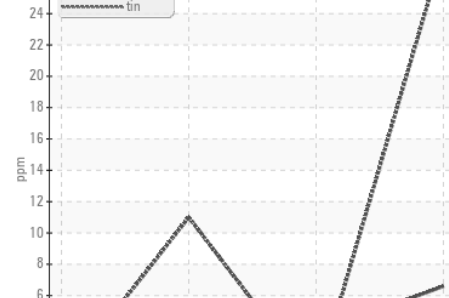
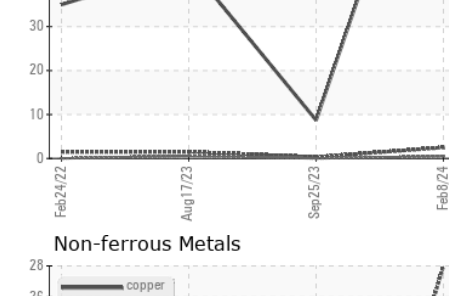
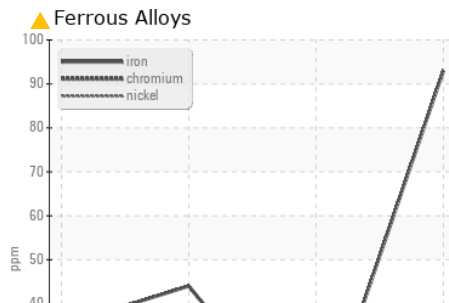
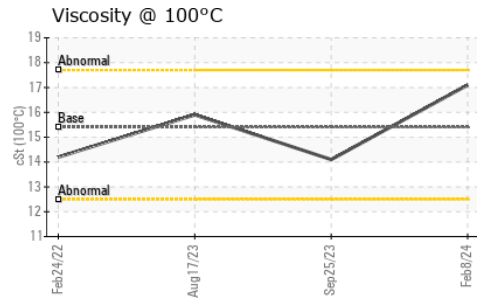
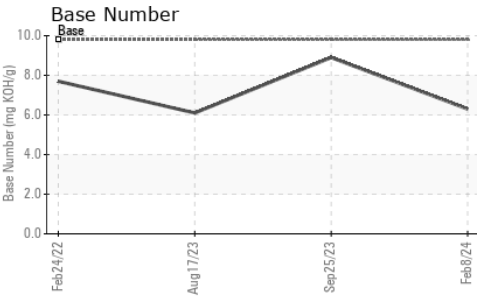
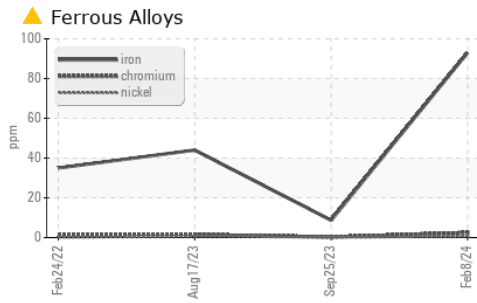
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>12</b>	8	11
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	6	1
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>0.5</b>	0.1	0.3
Nitration	Abs/cm	*ASTM D7624	>20	<b>14.9</b>	5.8	12.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>32.7</b>	17.8	27.6
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 acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>34</b>	<b>▲ 132</b>	22
Boron	ppm	ASTM D5185m	0	<b>8</b>	10	48
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	60	<b>82</b>	65	74
Manganese	ppm	ASTM D5185m	0	<b>1</b>	1	<1
Magnesium	ppm	ASTM D5185m	1010	<b>1326</b>	965	1051
Calcium	ppm	ASTM D5185m	1070	<b>1506</b>	1096	1370
Phosphorus	ppm	ASTM D5185m	1150	<b>1429</b>	1047	1152
Zinc	ppm	ASTM D5185m	1270	<b>1772</b>	1270	1443
Sulfur	ppm	ASTM D5185m	2060	<b>3047</b>	3140	3723
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>39.3</b>	13.8	30.6
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>6.3</b>	8.9	6.1
Visc @ 100°C	cSt	ASTM D445	15.4	<b>17.1</b>	14.1	15.9



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0110064  
**Lab Number** : 06085837  
**Unique Number** : 10873282  
**Test Package** : FLEET

**Received** : 12 Feb 2024  
**Tested** : 13 Feb 2024  
**Diagnosed** : 13 Feb 2024 - Don Baldrige

**GFL Environmental - 468 - Dearborn**  
 3051 Schaefer Rd  
 Dearborn, MI  
 US 48126  
 Contact:

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: