



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

Machine Id  
**6006M**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 15W40 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0097509</b>	GFL0092964	GFL0015806
Sample Date		Client Info		<b>03 Jan 2024</b>	27 Nov 2023	28 Jun 2023
Machine Age	hrs	Client Info		<b>26740</b>	26727	26609
Oil Age	hrs	Client Info		<b>26568</b>	26568	26568
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	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>9</b>	2	14
Chromium	ppm	ASTM D5185m	>20	<b>0</b>	0	2
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	0	1
Titanium	ppm	ASTM D5185m		<b>0</b>	0	2
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	2
Aluminum	ppm	ASTM D5185m	>20	<b>&lt;1</b>	1	2
Lead	ppm	ASTM D5185m	>40	<b>3</b>	0	6
Copper	ppm	ASTM D5185m	>330	<b>0</b>	0	2
Tin	ppm	ASTM D5185m	>15	<b>0</b>	0	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**

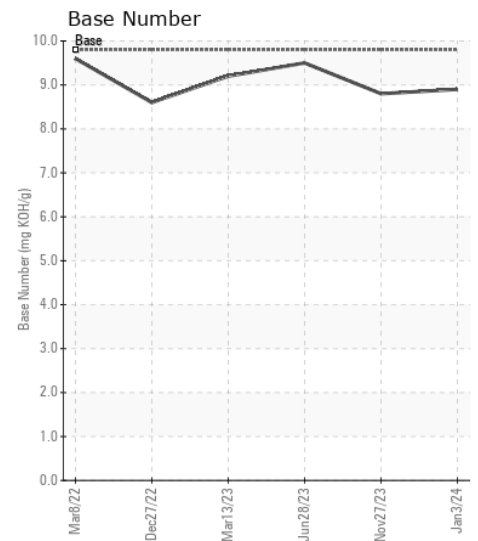
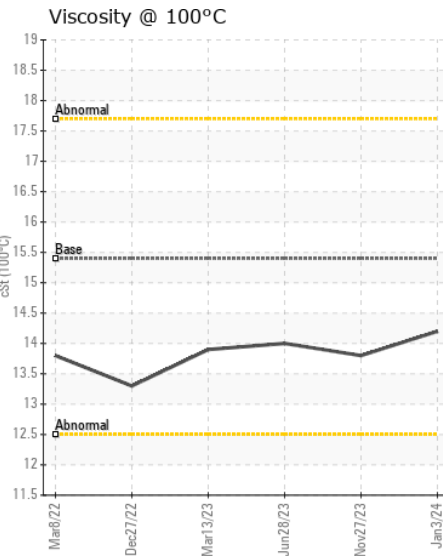
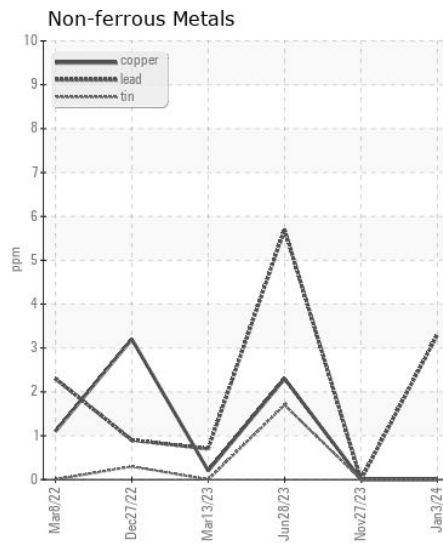
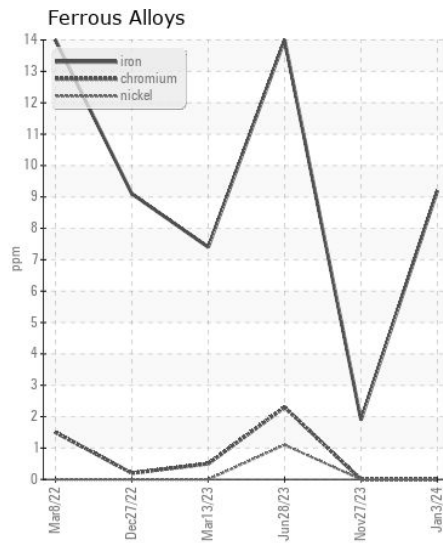
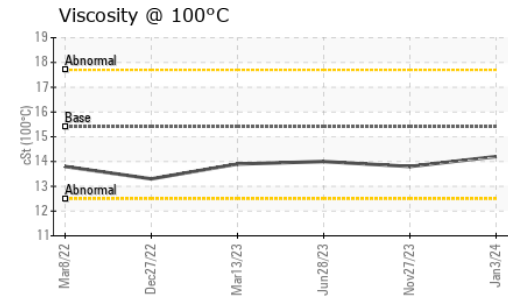
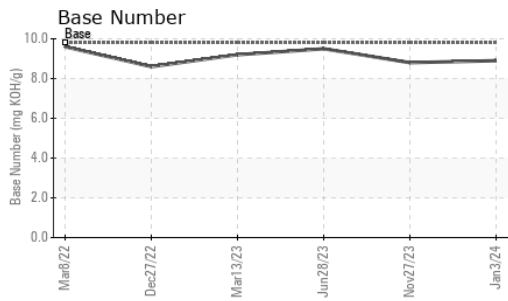
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>2</b>	3	4
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	6
Fuel		WC Method	>5	<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	>3	<b>1.7</b>	0.2	0.7
Nitration	Abs/cm	*ASTM D7624	>20	<b>6.8</b>	4.9	5.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>19.8</b>	17.2	18.8
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>	2	7
Boron	ppm	ASTM D5185m	0	<b>2</b>	8	4
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	60	<b>57</b>	59	56
Manganese	ppm	ASTM D5185m	0	<b>0</b>	0	2
Magnesium	ppm	ASTM D5185m	1010	<b>950</b>	966	950
Calcium	ppm	ASTM D5185m	1070	<b>1023</b>	1062	1107
Phosphorus	ppm	ASTM D5185m	1150	<b>939</b>	1052	989
Zinc	ppm	ASTM D5185m	1270	<b>1262</b>	1262	1252
Sulfur	ppm	ASTM D5185m	2060	<b>2853</b>	3173	3637
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>13.2</b>	12.6	13.1
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>8.9</b>	8.8	9.5
Visc @ 100°C	cSt	ASTM D445	15.4	<b>14.2</b>	13.8	14.0



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0097509 **Received** : 11 Jan 2024  
**Lab Number** : 06057722 **Diagnosed** : 11 Jan 2024  
**Unique Number** : 10823671 **Diagnostician** : Wes Davis  
**Test Package** : FLEET

**GFL Environmental - 463 - Cheboygan**  
 501 N. Western Ave  
 Cheboygan, MI  
 US 49721  
 Contact: Chris Gee  
 cgee@gflenv.com  
 T: (231)597-8553  
 F:

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)