



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



Area  
**(MC12735)**  
Machine Id  
**7996**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON XL SYN BLEND 15W40 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0108413</b>	GFL0084534	GFL0071445
Sample Date		Client Info		<b>10 Jan 2024</b>	21 Jun 2023	07 Mar 2023
Machine Age	hrs	Client Info		<b>445</b>	13226	12616
Oil Age	hrs	Client Info		<b>445</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
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**

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>165	<b>24</b>	14	21
Chromium	ppm	ASTM D5185m	>5	<b>2</b>	2	<1
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	4
Titanium	ppm	ASTM D5185m	>2	<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>1</b>	6	<1
Lead	ppm	ASTM D5185m	>150	<b>&lt;1</b>	3	<1
Copper	ppm	ASTM D5185m	>90	<b>1</b>	2	124
Tin	ppm	ASTM D5185m	>5	<b>&lt;1</b>	2	1
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

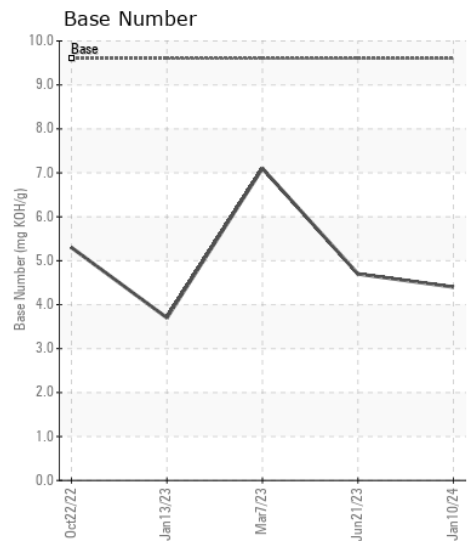
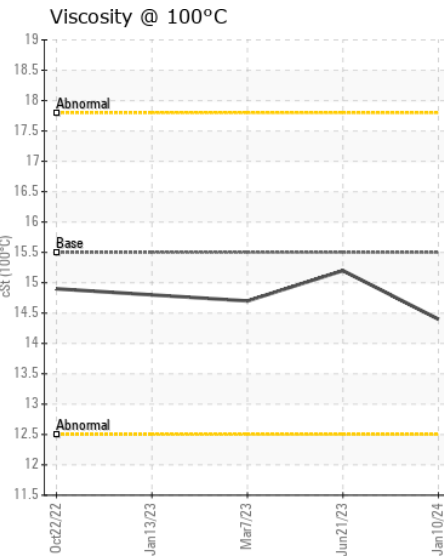
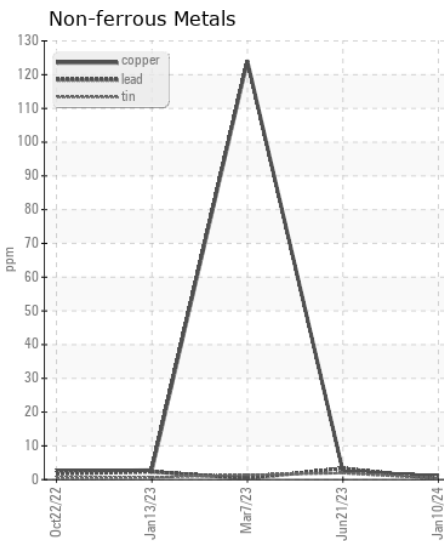
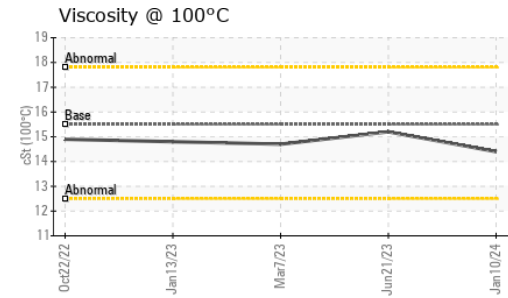
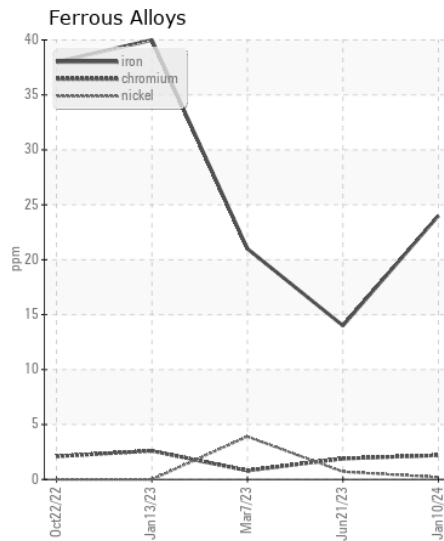
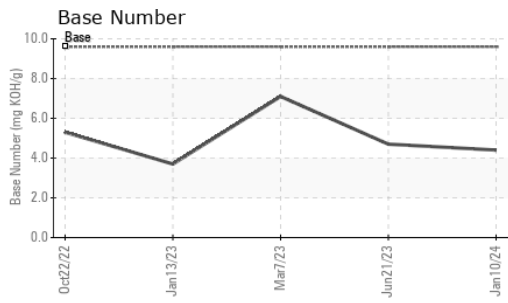
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>35	<b>5</b>	5	11
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	3	<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	>7.5	<b>0</b>	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.2</b>	10.3	9.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>18.8</b>	21.3	19.7
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>6</b>	9	3
Boron	ppm	ASTM D5185m	1	<b>2</b>	16	10
Barium	ppm	ASTM D5185m	1	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	60	<b>63</b>	57	62
Manganese	ppm	ASTM D5185m	1	<b>&lt;1</b>	2	2
Magnesium	ppm	ASTM D5185m	1010	<b>973</b>	575	914
Calcium	ppm	ASTM D5185m	1070	<b>1154</b>	1789	1138
Phosphorus	ppm	ASTM D5185m	1150	<b>1047</b>	725	901
Zinc	ppm	ASTM D5185m	1270	<b>1302</b>	1042	1139
Sulfur	ppm	ASTM D5185m	2060	<b>2802</b>	2788	2654
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>15.4</b>	19.1	16.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.6	<b>4.4</b>	4.7	7.1
Visc @ 100°C	cSt	ASTM D445	15.5	<b>14.4</b>	15.2	14.7



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0108413 **Received** : 16 Jan 2024  
**Lab Number** : 06060704 **Diagnosed** : 16 Jan 2024  
**Unique Number** : 10832086 **Diagnostician** : Wes Davis  
**Test Package** : FLEET

**GFL Environmental - 918 - Hartland HC**  
 630 E Industrial Drive  
 Hartland, WI  
 US 53029  
 Contact: David McCall  
 david.mccall@gflenv.com  
 T: (262)369-3069  
 F:

Certificate L2367  
 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)