



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



Area  
**(P617926)**  
Machine Id  
**2438**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 15W40 (11 GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0096908</b>	GFL0096986	GFL0069783
Sample Date		Client Info		<b>29 Jan 2024</b>	15 Nov 2023	10 Aug 2023
Machine Age	hrs	Client Info		<b>37455</b>	37446	37286
Oil Age	hrs	Client Info		<b>37455</b>	37274	0
Filter Age	hrs	Client Info		<b>0</b>	37274	0
Oil Changed		Client Info		<b>Not Chngd</b>	Changed	Changed
Filter Changed		Client Info		<b>Not Chngd</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	ABNORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>120	<b>&lt;1</b>	33	81
Chromium	ppm	ASTM D5185m	>20	<b>0</b>	1	2
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185m	>2	<b>0</b>	<1	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>1</b>	2	1
Lead	ppm	ASTM D5185m	>40	<b>0</b>	1	2
Copper	ppm	ASTM D5185m	>330	<b>0</b>	4	13
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	2
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**

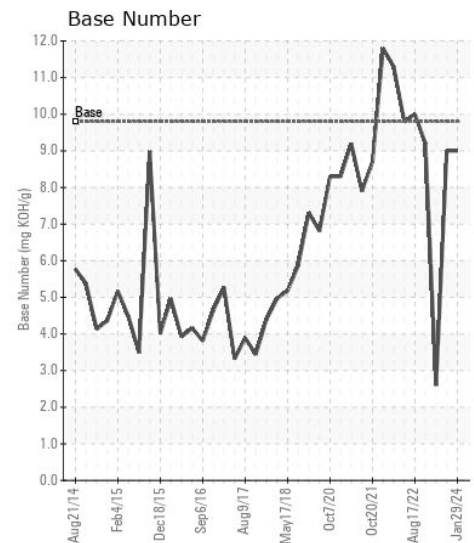
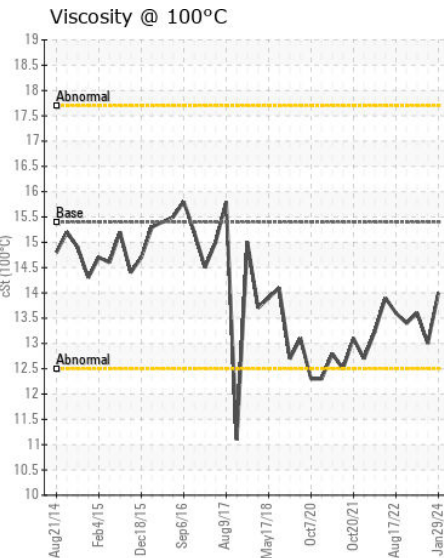
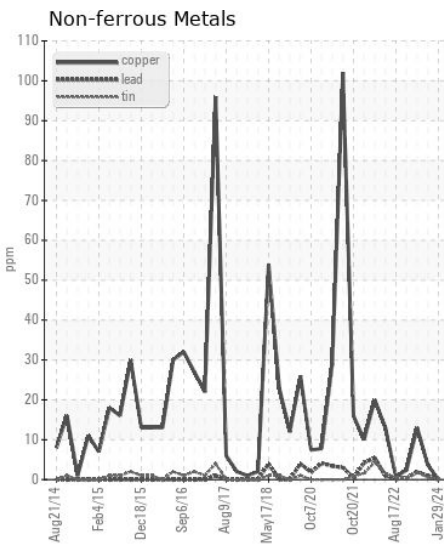
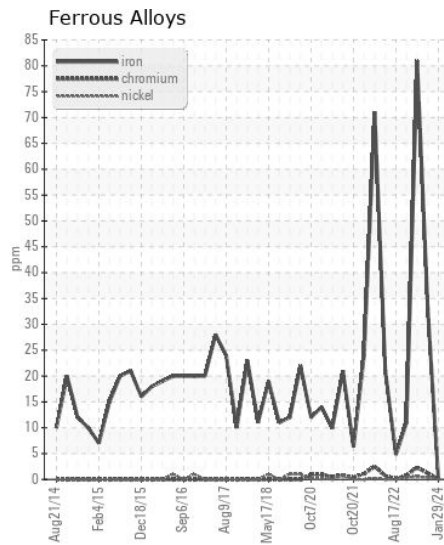
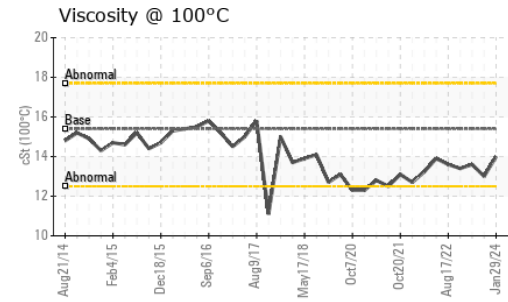
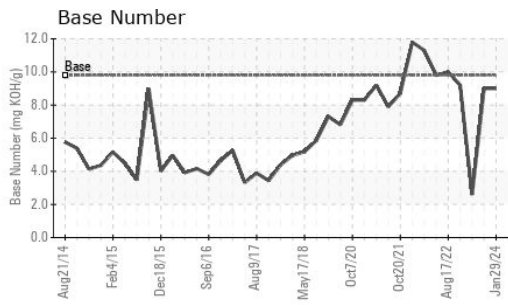
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>4</b>	4	6
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	2	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	>4	<b>0.1</b>	1.7	3.5
Nitration	Abs/cm	*ASTM D7624	>20	<b>4.2</b>	6.1	9.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>17.0</b>	19.6	24.0
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>0</b>	0	0
Boron	ppm	ASTM D5185m	0	<b>11</b>	24	4
Barium	ppm	ASTM D5185m	0	<b>&lt;1</b>	10	0
Molybdenum	ppm	ASTM D5185m	60	<b>56</b>	64	59
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	1010	<b>861</b>	787	835
Calcium	ppm	ASTM D5185m	1070	<b>937</b>	1066	994
Phosphorus	ppm	ASTM D5185m	1150	<b>973</b>	946	908
Zinc	ppm	ASTM D5185m	1270	<b>1127</b>	1091	1099
Sulfur	ppm	ASTM D5185m	2060	<b>2859</b>	3399	2736
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>12.1</b>	12.2	13.6
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>9.0</b>	9.0	▲ 2.6
Visc @ 100°C	cSt	ASTM D445	15.4	<b>14.0</b>	13.0	13.6



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0096908 **Received** : 01 Feb 2024  
**Lab Number** : 06076588 **Diagnosed** : 01 Feb 2024  
**Unique Number** : 10858679 **Diagnostician** : Wes Davis  
**Test Package** : FLEET

**GFL Environmental - 031 - Greenville/Spartanburg**  
 1635 Antioch Church Rd  
 Piedmont, SC  
 US 29673  
 Contact: TECHNICIAN ACCOUNT  
 catherine.anastasio@wearcheck.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: