



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

Area  
**(H904541)**  
Machine Id  
**2588**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 15W40 (10 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>GFL0099747</b>	GFL0073288	GFL0073278
Sample Date		Client Info		<b>27 Feb 2024</b>	08 Nov 2023	04 Oct 2023
Machine Age	hrs	Client Info		<b>600</b>	600	600
Oil Age	hrs	Client Info		<b>600</b>	600	600
Filter Age	hrs	Client Info		<b>600</b>	600	600
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>17</b>	3	2
Chromium	ppm	ASTM D5185m	>5	<b>1</b>	0	0
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>3</b>	1	1
Lead	ppm	ASTM D5185m	>150	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185m	>90	<b>&lt;1</b>	0	1
Tin	ppm	ASTM D5185m	>5	<b>&lt;1</b>	<1	0
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**

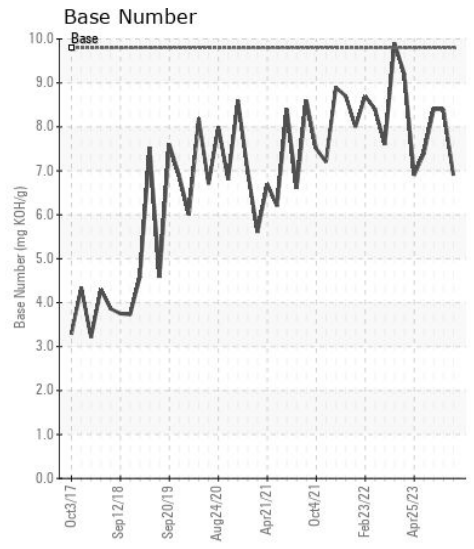
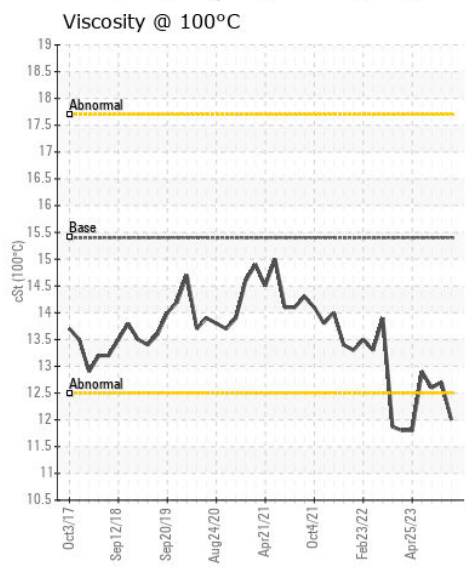
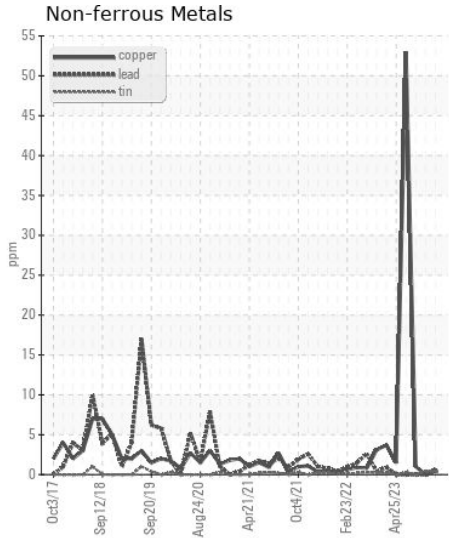
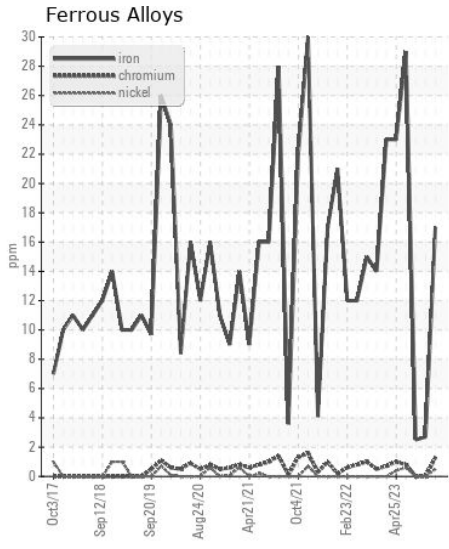
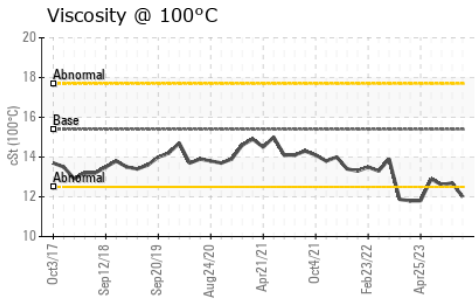
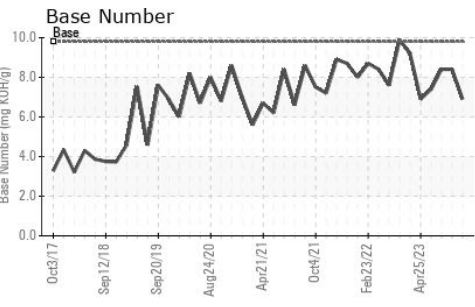
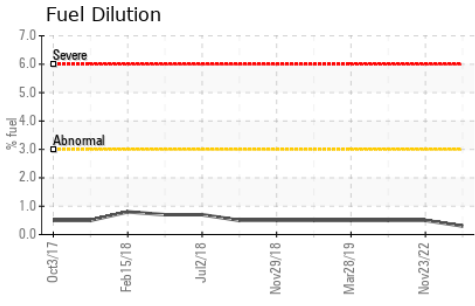
Fuel content negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>35	<b>18</b>	8	5
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	<1	2
Fuel	%	ASTM D3524	>3.0	<b>0.3</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>0.4</b>	0.1	0.2
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.4</b>	5.2	5.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>17.9</b>	16.8	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>12</b>	0	7
Boron	ppm	ASTM D5185m	0	<b>22</b>	30	24
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	60	<b>109</b>	89	95
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185m	1010	<b>1151</b>	906	916
Calcium	ppm	ASTM D5185m	1070	<b>1348</b>	1080	1113
Phosphorus	ppm	ASTM D5185m	1150	<b>1313</b>	1001	1022
Zinc	ppm	ASTM D5185m	1270	<b>1627</b>	1217	1244
Sulfur	ppm	ASTM D5185m	2060	<b>4436</b>	3087	3162
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>13.2</b>	12.1	12.2
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>6.9</b>	8.4	8.4
Visc @ 100°C	cSt	ASTM D445	15.4	<b>12.0</b>	12.7	12.6



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0099747 **Received** : 29 Feb 2024  
**Lab Number** : 06104032 **Tested** : 04 Mar 2024  
**Unique Number** : 10902262 **Diagnosed** : 04 Mar 2024 - Wes Davis  
**Test Package** : FLEET ( Additional Tests: FuelDilution, PercentFuel )

**GFL Environmental - 102 - Morristown TN**  
 415 Ryder Lane, PO Box 1894  
 Morristown, TN  
 US 37813  
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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)