



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

Area

**(P587730)**

Machine Id

**2573**

Component

**Diesel Engine**

Fluid

**PETRO CANADA DURON SHP 15W40 (10 GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0109578</b>	GFL0110365	GFL0110377
Sample Date		Client Info		<b>23 May 2024</b>	16 May 2024	15 Feb 2024
Machine Age	hrs	Client Info		<b>23452</b>	23426	22862
Oil Age	hrs	Client Info		<b>23452</b>	23000	0
Filter Age	hrs	Client Info		<b>0</b>	23000	0
Oil Changed		Client Info		<b>Changed</b>	N/A	Not Changd
Filter Changed		Client Info		<b>Changed</b>	N/A	Not Changd
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>165	<b>22</b>	23	4
Chromium	ppm	ASTM D5185m	>5	<b>1</b>	1	<1
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m	>2	<b>0</b>	0	<1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>20	<b>3</b>	3	1
Lead	ppm	ASTM D5185m	>150	<b>4</b>	5	<1
Copper	ppm	ASTM D5185m	>90	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185m	>5	<b>&lt;1</b>	<1	<1
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**

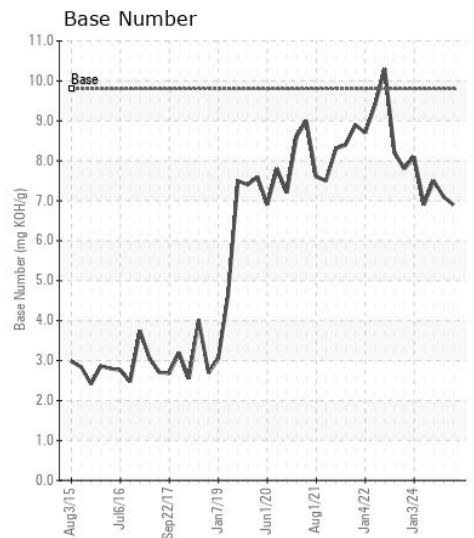
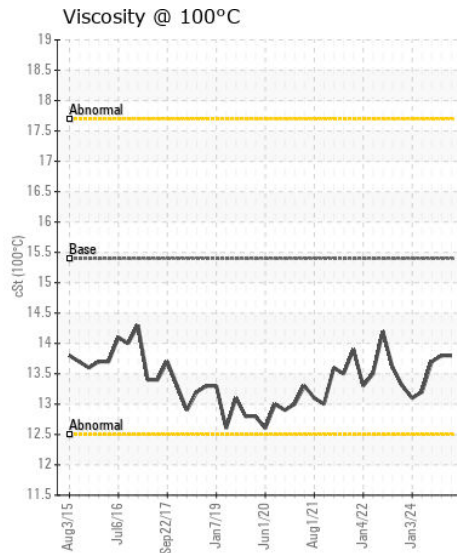
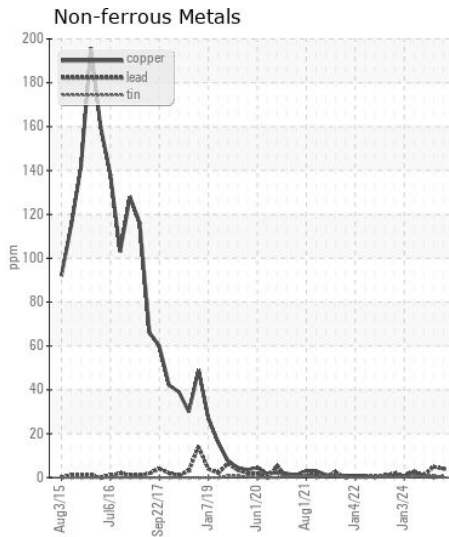
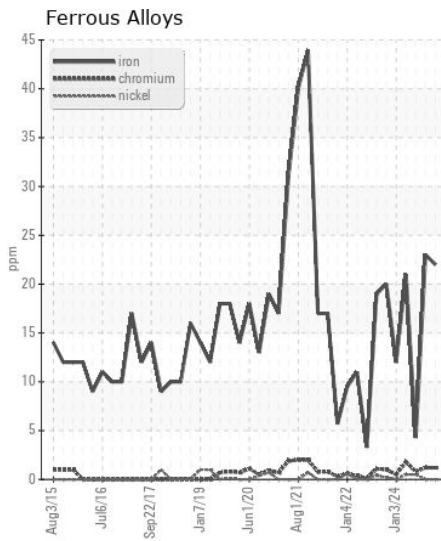
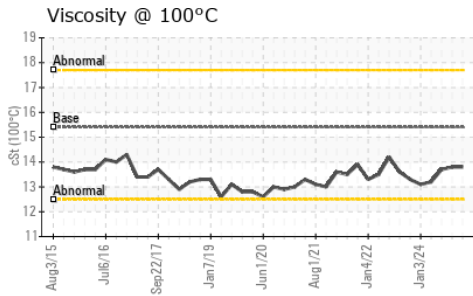
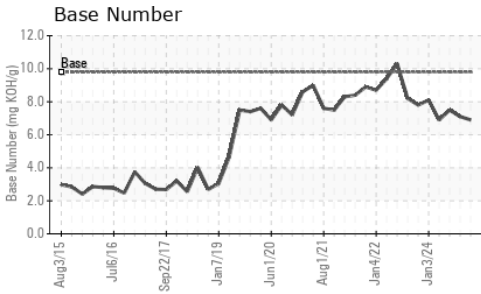
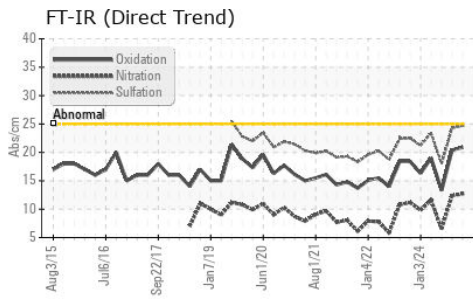
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>35	<b>6</b>	7	4
Potassium	ppm	ASTM D5185m	>20	<b>15</b>	14	4
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>1.5</b>	1.4	0.2
Nitration	Abs/cm	*ASTM D7624	>20	<b>12.7</b>	12.4	6.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>24.7</b>	24.3	18.0
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>16</b>	16	0
Boron	ppm	ASTM D5185m	0	<b>7</b>	15	9
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	60	<b>68</b>	72	60
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	1010	<b>962</b>	975	890
Calcium	ppm	ASTM D5185m	1070	<b>1123</b>	1128	1062
Phosphorus	ppm	ASTM D5185m	1150	<b>1110</b>	1134	988
Zinc	ppm	ASTM D5185m	1270	<b>1282</b>	1288	1147
Sulfur	ppm	ASTM D5185m	2060	<b>3443</b>	3519	3682
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>20.9</b>	20.4	13.3
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>6.9</b>	7.1	7.5
Visc @ 100°C	cSt	ASTM D445	15.4	<b>13.8</b>	13.8	13.7



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0109578  
**Lab Number** : 06191647  
**Unique Number** : 11048399  
**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)