



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



Area  
**(19C418)**  
Machine Id  
**422021-402156**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 15W40 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor. ( Customer Sample Comment: please update to read last oil change at 7095 hours )

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0093476</b>	GFL0109300	GFL0109411
Sample Date		Client Info		<b>26 Jun 2024</b>	10 May 2024	29 Apr 2024
Machine Age	hrs	Client Info		<b>7203</b>	7095	7068
Oil Age	hrs	Client Info		<b>108</b>	370	343
Filter Age	hrs	Client Info		<b>108</b>	370	343
Oil Changed		Client Info		<b>Not Changd</b>	Changed	Not Changd
Filter Changed		Client Info		<b>Not Changd</b>	Changed	Not Changd
Sample Status				<b>NORMAL</b>	ABNORMAL	ABNORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>120	<b>10</b>	20	18
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>5	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185m	>2	<b>6</b>	1	1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>20	<b>4</b>	1	2
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	2	2
Copper	ppm	ASTM D5185m	>330	<b>&lt;1</b>	2	2
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

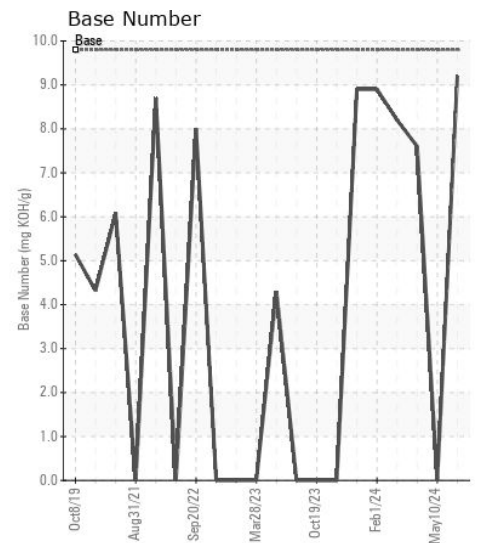
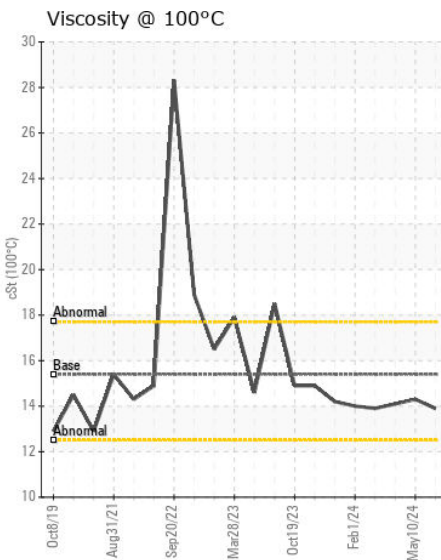
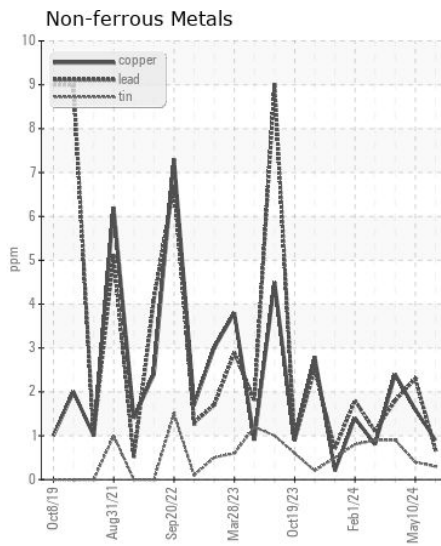
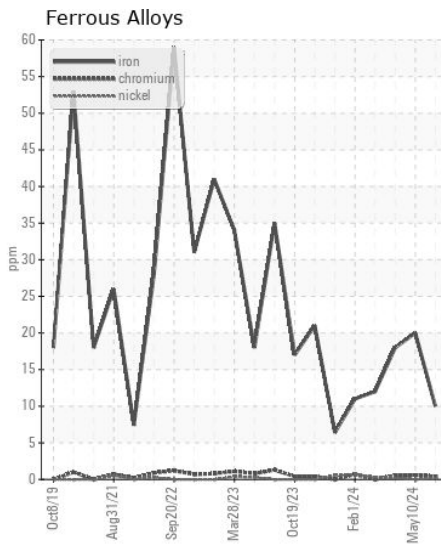
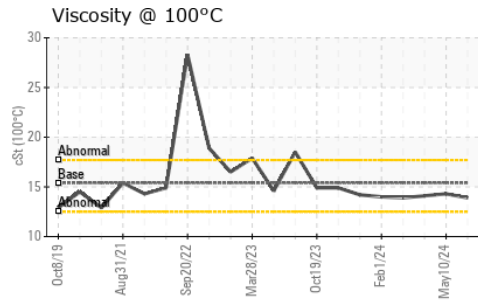
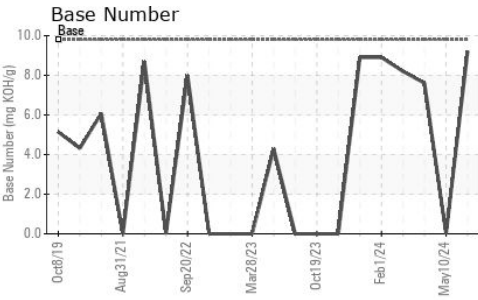
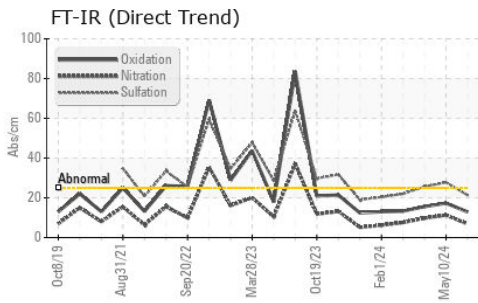
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>4</b>	3	3
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	<1	2
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>2.4</b>	▲ 4.6	▲ 4.1
Nitration	Abs/cm	*ASTM D7624	>20	<b>6.8</b>	11.3	9.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>21.3</b>	27.8	25.6
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>5</b>	1	<1
Boron	ppm	ASTM D5185m	0	<b>7</b>	<1	<1
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	60	<b>53</b>	59	54
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	1010	<b>920</b>	968	843
Calcium	ppm	ASTM D5185m	1070	<b>1094</b>	1101	993
Phosphorus	ppm	ASTM D5185m	1150	<b>1045</b>	1024	1002
Zinc	ppm	ASTM D5185m	1270	<b>1239</b>	1243	1147
Sulfur	ppm	ASTM D5185m	2060	<b>3380</b>	3493	3027
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>12.9</b>	17.3	15.6
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>9.2</b>	▲ 0.0	7.6
Visc @ 100°C	cSt	ASTM D445	15.4	<b>13.9</b>	14.3	14.1



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : GFL0093476

Lab Number : 06222200

Unique Number : 11100397

Test Package : FLEET

Received : 27 Jun 2024

Tested : 28 Jun 2024

Diagnosed : 28 Jun 2024 - Don Baldrige

GFL Environmental - 892 - Pauls Valley Hauling

1910 S CHICKASAW STREET

Pauls Valley, OK

US 73075

Contact: Tony Graham

tgraham2@wcamerica.com

T:

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)