



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

Area  
**(YA130683)**  
Machine Id  
**3703**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 15W40 (8 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>GFL0116377</b>	GFL0116382	GFL0098780
Sample Date		Client Info		<b>01 Jul 2024</b>	11 Apr 2024	01 Feb 2024
Machine Age	hrs	Client Info		<b>9961</b>	9961	9961
Oil Age	hrs	Client Info		<b>9961</b>	9961	9961
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	Changed
Filter Changed		Client Info		<b>N/A</b>	N/A	Changed
Sample Status				<b>NORMAL</b>	SEVERE	ABNORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>75	<b>26</b>	4	▲ 111
Chromium	ppm	ASTM D5185m	>5	<b>2</b>	<1	▲ 9
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	▲ 6
Titanium	ppm	ASTM D5185m	>2	<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>15	<b>8</b>	2	13
Lead	ppm	ASTM D5185m	>25	<b>0</b>	<1	4
Copper	ppm	ASTM D5185m	>100	<b>&lt;1</b>	<1	13
Tin	ppm	ASTM D5185m	>4	<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**

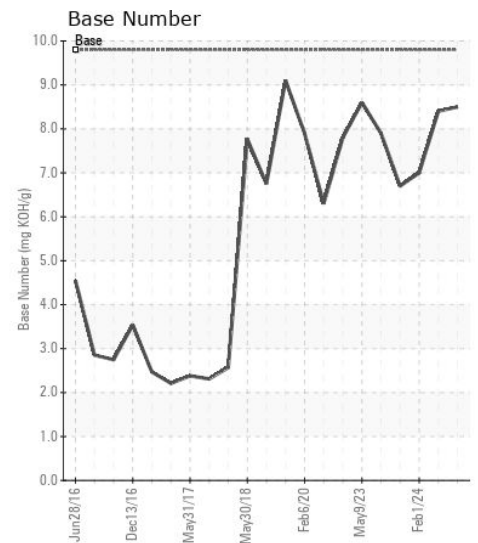
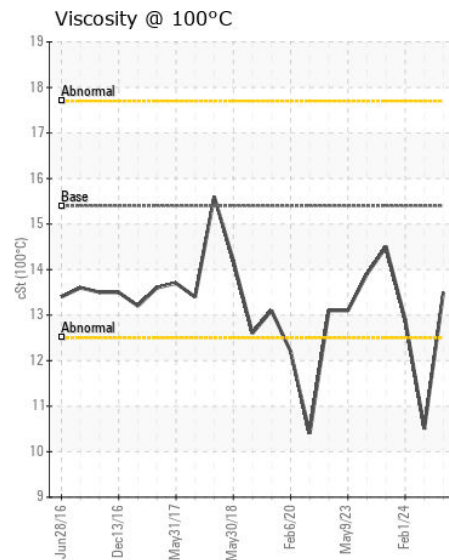
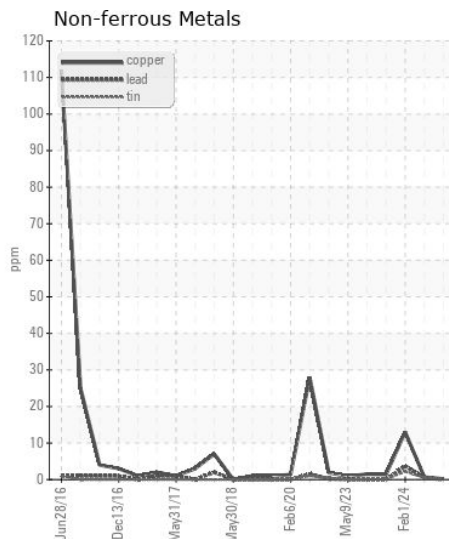
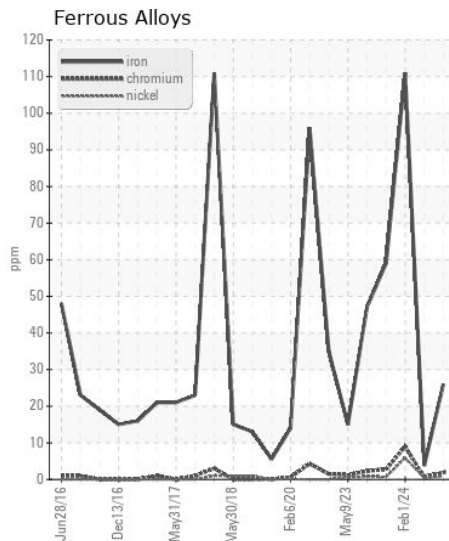
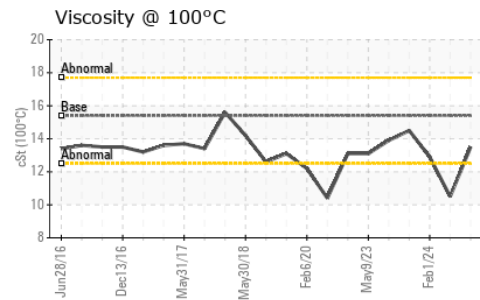
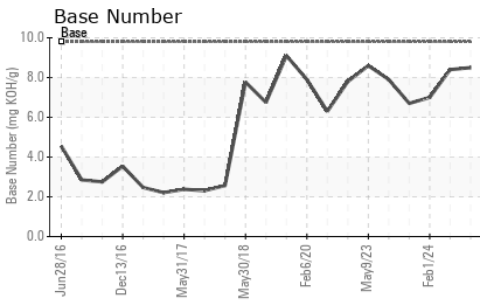
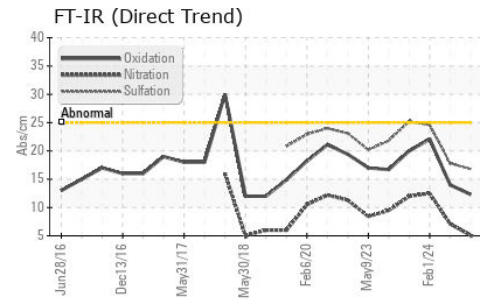
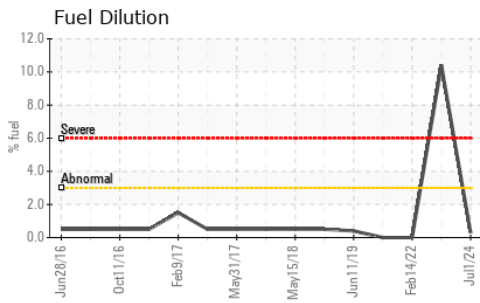
Fuel content negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>14</b>	3	11
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	2	7
Fuel	%	ASTM D3524	>3.0	<b>0.3</b>	▲ 10.4	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>6	<b>0.2</b>	0.2	1.4
Nitration	Abs/cm	*ASTM D7624	>20	<b>5.1</b>	7.1	12.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>16.8</b>	17.8	24.6
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>2</b>	3	17
Boron	ppm	ASTM D5185m	0	<b>7</b>	8	5
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	60	<b>54</b>	53	65
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	<1	2
Magnesium	ppm	ASTM D5185m	1010	<b>922</b>	780	957
Calcium	ppm	ASTM D5185m	1070	<b>1029</b>	1019	1068
Phosphorus	ppm	ASTM D5185m	1150	<b>1017</b>	928	974
Zinc	ppm	ASTM D5185m	1270	<b>1202</b>	1053	1241
Sulfur	ppm	ASTM D5185m	2060	<b>3523</b>	2929	2838
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>12.3</b>	14.0	22.1
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>8.5</b>	8.4	7.0
Visc @ 100°C	cSt	ASTM D445	15.4	<b>13.5</b>	▲ 10.5	12.9



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0116377 **Received** : 05 Jul 2024  
**Lab Number** : 06228289 **Tested** : 09 Jul 2024  
**Unique Number** : 11111782 **Diagnosed** : 09 Jul 2024 - Wes Davis  
**Test Package** : FLEET ( Additional Tests: PercentFuel )

**GFL Environmental - 19DR - Deep Run/TriEast**  
 2287 Leslie R Stroud Road  
 Kinston, NC  
 US 28504-9477  
 Contact: Spencer Ligon  
 spencer.ligon@gflenv.com  
 T: (800)207-6618  
 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)