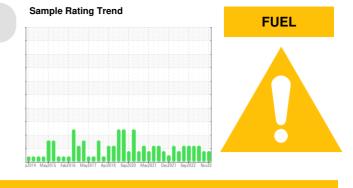


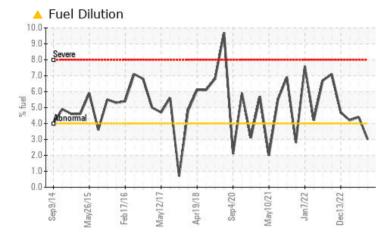
## **PROBLEM SUMMARY**



# Machine Id 2405

Component Diesel Engine Fluid PETRO CANADA DURON SHP 15W40 (50 QTS)

### COMPONENT CONDITION SUMMARY



### RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS								
Sample Status				MARGINAL	ABNORMAL	ABNORMAL		
Fuel	%	ASTM D3524	>4.0	<b>A</b> 3.0	<b>4</b> .4	4.2		

Customer Id: GFL017 Sample No.: GFL0098093 Lab Number: 05997287 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data: Wes Davis +1 905-569-8600 x223 wesd@wearcheck.ca

*To change component or sample information:* Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u>

		Page	1	of	4
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There are no recommended actions for this sample.

### **HISTORICAL DIAGNOSIS**

### 17 Jul 2023 Diag: Wes Davis



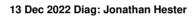
We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. Metal levels are typical for a new component breaking in. There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

### 09 May 2023 Diag: Wes Davis

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.All component wear rates are normal. There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

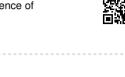


view report



We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. There is a moderate amount of fuel present in the oil. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.





### Report Id: GFL017 [WUSCAR] 05997287 (Generated: 11/06/2023 16:42:55) Rev: 1



## **OIL ANALYSIS REPORT**

### ELIEL

### Machine Id 2405

Component **Diesel Engine** 

Fluic

### PETRO CANADA DURON SHP 15W40 (50 QTS)

### DIAGNOSIS

### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

Light fuel dilution occurring. No other contaminants were detected in the oil.

### 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.

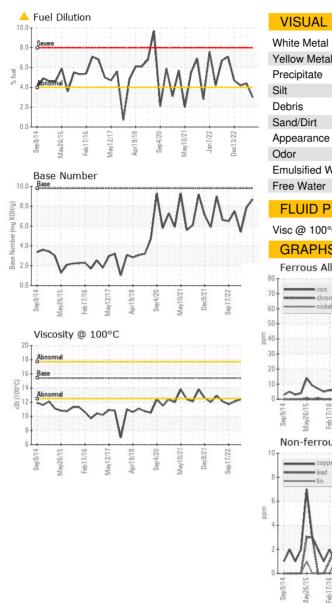
SIS REPO	ORT					FUEL
QTS)		2014 May201		Dis Supérior Mayéori Dukéori Bukéori		
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number Sample Date Machine Age Oil Age Oil Changed	hrs hrs	Client Info Client Info Client Info Client Info Client Info		GFL0098093 01 Nov 2023 136575 330 N/A	GFL0088570 17 Jul 2023 497 497 N/A	GFL0061169 09 May 2023 136575 640 N/A
Sample Status				MARGINAL	ABNORMAL	ABNORMAL
CONTAMINA	TION	method	limit/base	current	history1	history2
Glycol		WC Method		NEG	NEG	NEG
WEAR META	LS	method	limit/base	current	history1	history2
Iron Chromium Nickel Titanium Silver Aluminum Lead Copper Tin Vanadium Cadmium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>80 >6 >2 >2 >2 >2 >20 >95 >85 >9	6 <1 <1 0 3 0 <1 0 0 <1	8 <1 <1 0 4 <1 <1 <1 <1 <1 <1 <1 0 0	14 <1 2 0 0 7 <1 2 1 <1 0 0
ADDITIVES		method	limit/base	current	history1	history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60 0 1010 1070 1150	5 0 61 0 910 1158 959	0 1 60 <1 978 1085 1026	5 0 57 <1 854 1052 946
Zinc	ppm	ASTM D5185m	1270	1258	1293	1180
	ppm ppm	ASTM D5185m ASTM D5185m	1270 2060	1258 3503	1293 3701	1180 3494

CONTAMINAN	IS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	4	7
Sodium	ppm	ASTM D5185m		0	4	8
Potassium	ppm	ASTM D5185m	>20	4	5	3
Fuel	%	ASTM D3524	>4.0	<u> </u>	<b>4</b> .4	<b>4</b> .2
INFRA-RED		and a file of all	11 11 11		1.	la la tarra O
		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	limit/base	0.4	0.4	0.5
	% Abs/cm					

FLUID DEGRA		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.5	15.4	16.5
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.7	7.9	5.4

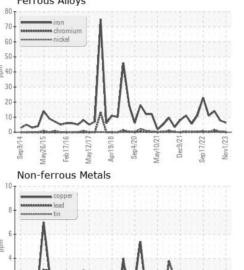


# **OIL ANALYSIS REPORT**



VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.3	12.9	12.4
GRAPHS						

Ferrous Alloys



Apr19/ en4

20

18

16

10

6

Unique Number : 10725647

Laboratory

Sample No.

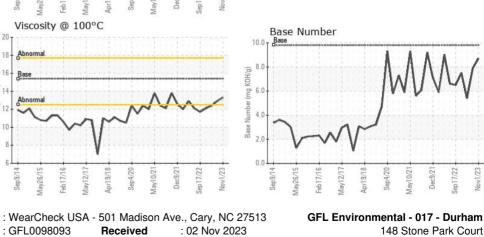
Lab Number

Sep9/14

Mav26/15

: 05997287

St (100°C)



: 06 Nov 2023

148 Stone Park Court Durham, NC US 27703 Contact: Shane Parks shane.parks@gflenv.com T: (919)596-1363 F: (919)598-1852



Test Package : FLEET (Additional Tests: PercentFuel) Certificate L2367 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)

Diagnosed

Diagnostician : Wes Davis