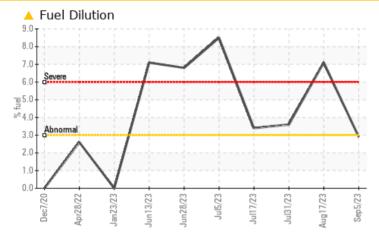


### **PROBLEM SUMMARY**

# Machine Id 810029

Component Diesel Engine Fluid PETRO CANADA DURON SHP 15W40 (28 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	SEVERE	NORMAL	
Fuel	%	ASTM D3524	>3.0	<u> </u>	7.1	<1.0	

Customer Id: GFL073 Sample No.: GFL0069131 Lab Number: 05947000 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 customerservice@wearcheck.com



### **RECOMMENDED ACTIONS**

There are no recommended actions for this sample.

### **HISTORICAL DIAGNOSIS**

#### 17 Aug 2023 Diag: Wes Davis

FUEL



### We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.All component wear rates are normal. There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil. The BN result indicates that there is



#### 15 Aug 2023 Diag: Wes Davis

31 Jul 2023 Diag: Wes Davis



serviceable due to the presence of contaminants.

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer



#### view report



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. The oil is no longer serviceable due to the presence of contaminants.





### **OIL ANALYSIS REPORT**



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FUEL

# Machine Id 810029

Component Diesel Engine

### Fluid PETRO CANADA DURON SHP 15W40 (28 QTS)

### DIAGNOSIS

### A 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.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0069131	GFL0069196	GFL0069189
Sample Date		Client Info		05 Sep 2023	17 Aug 2023	15 Aug 2023
Machine Age	hrs	Client Info		8807	8664	8654
Oil Age	hrs	Client Info		143	224	214
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				MARGINAL	SEVERE	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>75	6	11	9
Chromium	ppm	ASTM D5185m	>5	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	<1
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m		3	4	4
Lead	ppm	ASTM D5185m	>25	0	<1	0
Copper	ppm	ASTM D5185m		1	2	2
Tin	ppm	ASTM D5185m	>4	، <1	0	<1
Vanadium	ppm	ASTM D5185m	~7	0	0	0
Cadmium		ASTM D5185m		0	0	0
	ppm			U	-	-
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	4	4	6
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	57	60	60
Manganese	ppm	ASTM D5185m	0	1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	957	844	845
Calcium	ppm	ASTM D5185m	1070	1027	973	983
Phosphorus	ppm	ASTM D5185m	1150	1022	919	923
Zinc	ppm	ASTM D5185m	1270	1297	1132	1123
Sulfur	ppm	ASTM D5185m	2060	3863	3103	3075
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	2	1
Sodium	ppm	ASTM D5185m		4	3	2
Potassium	ppm	ASTM D5185m	>20	4	6	5
Fuel	%	ASTM D3524	>3.0	<u> </u>	7.1	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.5	0.8	0.6
Nitration	Abs/cm	*ASTM D7624		6.5	9.1	8.0
Sulfation	Abs/.1mm	*ASTM D7415		17.7	19.5	18.7
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.2	15.7	14.8
Base Number (BN)	mg KOH/g	ASTM D2896		8.5	7.6	7.9
	ing toning	CONTRIDECTO	0.0	0.0	1.0	1.0

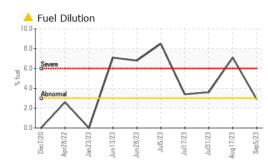


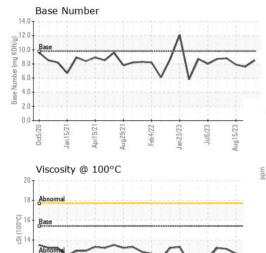
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# **OIL ANALYSIS REPORT**





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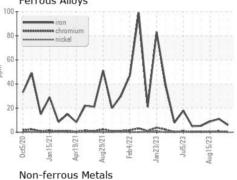
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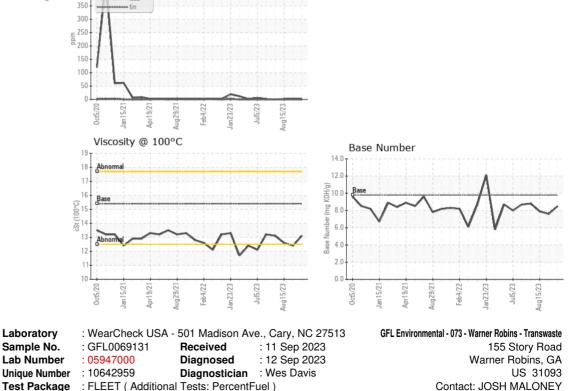
400

lead

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	>0.2	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	13.1	<b>1</b> 2.4	12.6
GRAPHS						

Ferrous Alloys







Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Submitted By: JOSH MALONEY

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