



## Machine Id **720027** Component

Diesel Engine Fluid PETRO CANADA DURON SHP 15W40 (--- GAL)

## COMPONENT CONDITION SUMMARY





## RECOMMENDATION

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.

PROBLEMATIC TEST RESULTS									
Sample Status				SEVERE	SEVERE	SEVERE			
Fuel	%	ASTM D3524	>2.0	6.5	20.0	22.2			
Visc @ 100°C	cSt	ASTM D445	15.4	<u> </u>	▲ 8.7	▲ 8.7			

Customer Id: GFL622 Sample No.: GFL0102516 Lab Number: 06043770 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						
Action	Status	Date	Done By	Description		
Resample			?	We recommend an early resample to monitor this condition.		
Check Fuel/injector System			?	We advise that you check the fuel injection system.		

## HISTORICAL DIAGNOSIS



## 01 Dec 2023 Diag: Jonathan Hester

We advise that you check the fuel injection system. We recommend that you drain the oil and perform a filter service on this component if not already done. 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. Fuel is present in the oil and is lowering the viscosity. 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.



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## 06 Oct 2023 Diag: Don Baldridge



We advise that you check the fuel injection system. We recommend that you drain the oil and perform a filter service on this component if not already done. 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. Fuel is present in the oil and is lowering the viscosity. 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.

#### 29 Sep 2023 Diag: Angela Borella



# We advise that you check the fuel injection system. We recommend that you drain the oil and perform a filter service on this component if not already done. 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. Fuel is present in the oil and is lowering the viscosity. 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**

Sample Rating Trend



Machine Id 720027

## Component

**Diesel Engine** 

Fluid PETRO CANADA DURON SHP 15W40 (--- GAL)

## DIAGNOSIS

## Recommendation

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.

## Wear

All component wear rates are normal.

## Contamination

There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

### Fluid Condition

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.

		method	iiiiii/base	current	nistory i	TIIStoryz
Sample Number		Client Info		GFL0102516	GFL0102805	GFL0090522
Sample Date		Client Info		11 Dec 2023	01 Dec 2023	06 Oct 2023
Machine Age	hrs	Client Info		10597	16625	16574
Oil Age	hrs	Client Info		0	16574	0
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				SEVERE	SEVERE	SEVERE
CONTAMINAT		mothod	limit/bass	ourropt	bioton/1	history
CONTAMINAT		method	IIIIII/Dase	current	TIIStOLA	TIIStOFy2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	20	58	58
Chromium	ppm	ASTM D5185m	>20	2	2	2
Nickel	ppm	ASTM D5185m	>4	<1	1	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	<1	<1	0
Aluminum	ppm	ASTM D5185m	>20	7	13	11
Lead	ppm	ASTM D5185m	>40	0	4	2
Copper	ppm	ASTM D5185m	>330	2	4	4
Tin	ppm	ASTM D5185m	>15	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	3	9	7
Barium	ppm	ASTM D5185m	0	<1	0	0
Molybdenum	ppm	ASTM D5185m	60	55	54	53
Manganese	ppm	ASTM D5185m	0	<1	1	<1
Magnesium	ppm	ASTM D5185m	1010	891	732	690
Calcium	ppm	ASTM D5185m	1070	992	894	878
Phosphorus	ppm	ASTM D5185m	1150	1056	805	700
Zinc	ppm	ASTM D5185m	1270	1212	971	886
Sulfur	ppm	ASTM D5185m	2060	2978	2395	2163
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	9	7	7
Sodium	ppm	ASTM D5185m		5	69	73
Potassium	ppm	ASTM D5185m	>20	16	8	7
Fuel	%	ASTM D3524	>2.0	6.5	20.0	22.2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.8	0.7
Nitration	Abs/cm	*ASTM D7624	>20	7.7	14.3	13.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.4	24.3	22.2
FLUID DEGRAD	DATION	method	limit/base	curr <u>ent</u>	history1	history2
Ovidation	Ahe/1mm	*49TM D7/1/	<u>\</u> 25	17.0	23.2	20.7
Base Number (BM)	ma KOH/a	ASTM D7414	9.8	8.2	49	4.3
	IIIy NUII/y	A01101 D2030	5.0	0.2	4.5	4.0



## **OIL ANALYSIS REPORT**



Submitted By: TECHNICIAN ACCOUNT

Dec11/23

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