

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	>3.0	🛑 12.8	28.1	24.1		
Visc @ 100°C	cSt	ASTM D445	15.4	🔺 11.0	▲ 8.3	9.4		

Customer Id: GFL465 Sample No.: GFL0082756 Lab Number: 05892765 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

RECOMMENDE	COMMENDED 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



23 Jun 2023 Diag: Doug Bogart

We advise that you check the fuel injection system. Oil and filter 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. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.



03 May 2023 Diag: Wes Davis



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 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.

23 Nov 2022 Diag: Don Baldridge



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. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.



view report





OIL ANALYSIS REPORT

Sample Rating Trend



Component **Diesel Engine** Fluid

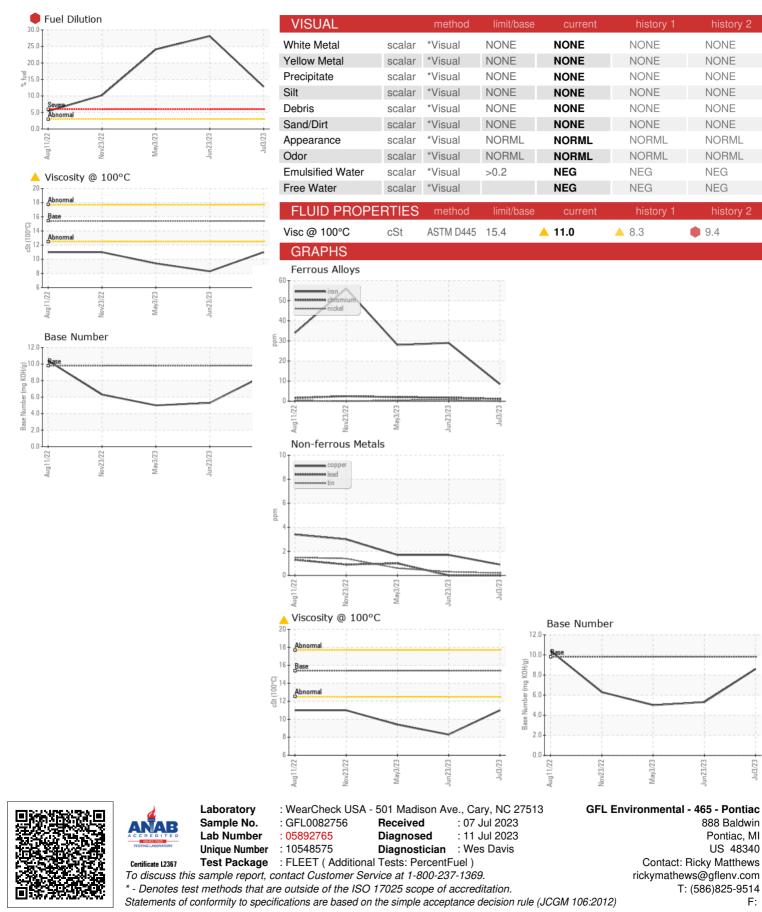
Machine Id 495M

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

DIAGNOSIS	SAMPLE INFOR	MATION	method	limit/base	current	history 1	history 2
Recommendation	Sample Number	_	Client Info		GFL0082756	GFL0082735	GFL0081290
We advise that you check the fuel injection system.	Sample Date		Client Info		03 Jul 2023	23 Jun 2023	03 May 2023
The oil change at the time of sampling has been	Machine Age	mls	Client Info		176437	179679	23302
noted. We recommend an early resample to monitor this condition.	Oil Age	mls	Client Info		0	600	600
	Oil Changed		Client Info		Changed	Changed	Changed
Wear	Sample Status				SEVERE	SEVERE	SEVERE
All component wear rates are normal.	CONTAMINAT	ION	method	limit/base	current	history 1	history 2
Contamination There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.	Glycol		WC Method		NEG	NEG	NEG
Fluid Condition	WEAR METAL	.S	method	limit/base	e current	history 1	history 2
The BN result indicates that there is suitable	Iron	ppm	ASTM D5185m	>90	8	29	28
Ikalinity remaining in the oil. Fuel is present in the	Chromium	ppm	ASTM D5185m	>20	1	2	2
il and is lowering the viscosity. The oil is no longer	Nickel	ppm	ASTM D5185m		0	<1	<1
serviceable due to the presence of contaminants.	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		2	2	1
	Lead	ppm	ASTM D5185m	>40	0	0	1
	Copper	ppm	ASTM D5185m	>330	<1	2	2
	Tin	ppm	ASTM D5185m	>15	<1	<1	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	Cadmium	ppm	ASTM D5185m		0	0	0
	ADDITIVES		method	limit/base	current	history 1	history 2
	Boron	ppm	ASTM D5185m	0	3	2	3
	Barium	ppm	ASTM D5185m	0	0	0	0
	Molybdenum	ppm	ASTM D5185m	60	49	38	44
	Manganese	ppm	ASTM D5185m	0	<1	<1	<1
	Magnesium	ppm	ASTM D5185m	1010	833	613	634
	Calcium	ppm	ASTM D5185m	1070	920	683	790
	Phosphorus	ppm	ASTM D5185m	1150	902	665	711
	Zinc	ppm	ASTM D5185m	1270	1120	813	906
	Sulfur	ppm	ASTM D5185m	2060	3273	2243	2234
	CONTAMINAN	ITS	method	limit/base	current	history 1	history 2
	Silicon	ppm	ASTM D5185m	>25	4	3	5
	Sodium	ppm	ASTM D5185m		2	4	2
	Potassium	ppm	ASTM D5185m	>20	2	2	1
	Fuel	%	ASTM D3524	>3.0	🛑 12.8	e 28.1	e 24.1
	INFRA-RED		method	limit/base	e current	history 1	history 2
	Soot %	%	*ASTM D7844	>6	0.2	0.6	0.4
	Nitration	Abs/cm	*ASTM D7624		8.8	13.4	12.2
	Sulfation	Abs/.1mm	*ASTM D7415		19.5	23.4	20.2
	FLUID DEGRA	DAT <u>IO</u> N	method	limit/base	e current	history 1	history 2
	Oxidation		*ASTM D7414	>25	17.0	29.6	24.9
	Base Number (BN)				8.6	5.3	5.0
	Dase Multiber (DIN)	ing NOTI/g	A0110102030	3.0	0.0	5.0	5.0



OIL ANALYSIS REPORT



Submitted By: Ricky Matthews

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