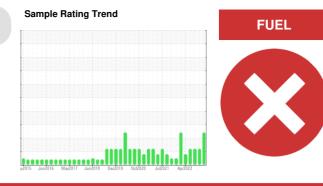


PROBLEM SUMMARY

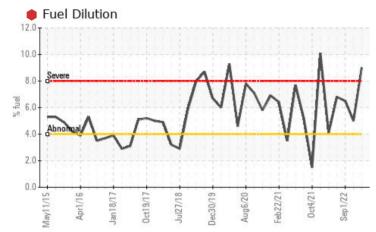


Machine Id 2407

Component
Diesel Engine
Eluid

PETRO CANADA DURON SHP 15W40 (11 GAL)

COMPONENT CONDITION SUMMARY



Viscosity @ 100°C

Dec30/19

0ct5/20 -

Apr26/22

Jul5/21

Jun5/18

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	ABNORMAL	ABNORMAL		
Fuel	%	ASTM D3524	>4.0	9.0	5 .0	6 .5		
Visc @ 100°C	cSt	ASTM D445	15.4	🔺 11.6	1 2.2	1 2.4		

May22/17

May11/15

Jun16/16

Customer Id: GFL035 Sample No.: GFL0071627 Lab Number: 05976909 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>

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



31 Jan 2023 Diag: Wes Davis

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 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.



01 Sep 2022 Diag: Don Baldridge



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.

06 Jun 2022 Diag: Jonathan Hester



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.



view report





OIL ANALYSIS REPORT

Sample Number

Sample Date

Machine Age

Oil Changed

Sample Status

Oil Age

Glycol

Iron

Nickel

Silver

Lead

Tin

Copper

Titanium

Aluminum

Vanadium

Cadmium

Boron

Barium

ADDITIVES

Chromium

FUEL

Machine Id 2407

Component **Diesel Engine**

Fluic

PETRO CANADA DURON SHP 15W40 (11 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.



Molybdenum	ppm	ASTM D5185m	60	59	60	52
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	827	815	777
Calcium	ppm	ASTM D5185m	1070	997	1090	899
Phosphorus	ppm	ASTM D5185m	1150	940	934	847
Zinc	ppm	ASTM D5185m	1270	1142	1168	1048
Sulfur	ppm	ASTM D5185m	2060	3193	3119	2552

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	10	4
Sodium	ppm	ASTM D5185m		<1	4	2
Potassium	ppm	ASTM D5185m	>20	4	7	3
Fuel	%	ASTM D3524	>4.0	9.0	▲ 5.0	6 .5
INFRA-RED		method	limit/base	current	history1	history2

Soot %	%	*ASTM D7844		0.2	0.3	0.5
Nitration	Abs/cm	*ASTM D7624	>20	8.1	9.2	9.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.0	18.6	19.9
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
FLUID DEGRAD	DATION Abs/.1mm	method *ASTM D7414		current 14.5	history1 14.8	history2 15.5



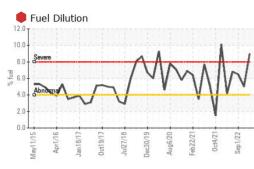
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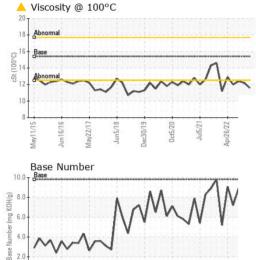
May11/15

v22/1

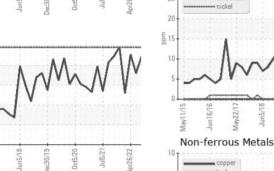
OIL ANALYSIS REPORT

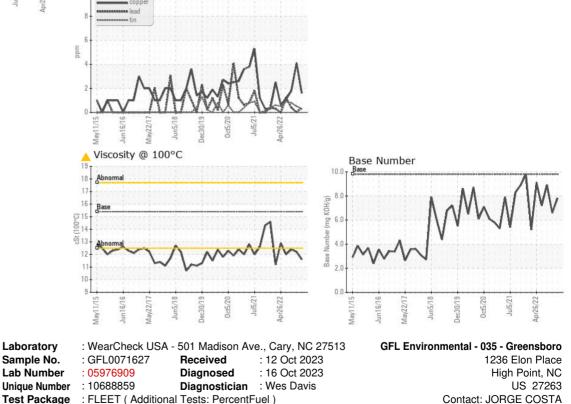
Per30/





VISUAL		method	limit/base	current	history1	history2
Vhite Metal	scalar	*Visual	NONE	NONE	NONE	NONE
ellow 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 PROPI	ERTIES	method	limit/base	current	history1	history2
/isc @ 100°C	cSt	ASTM D445	15.4	11.6	▲ 12.2	12.4
GRAPHS						
Ferrous Alloys						
iron chromium nickel			1			





 Unique Number
 : 10688859
 Diagnostician
 : Wes Davis

 Certificate 12367
 Test Package
 : FLEET (Additional Tests: PercentFuel)

 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)

jorge.costa@gflenv.com