

Area (EIB906) 3665 Component Diesel Engine Fluid PETRO CANADA DURON SHP 15W40 (11 GAL)

COMPONENT CONDITION SUMMARY







RECOMMENDATION

We advise that you check the fuel injection system. 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.

PROBLEMATIC TEST RESULTS							
Sample Status				SEVERE	SEVERE	SEVERE	
Fuel	%	ASTM D3524	>3.0	& 8.9	1 7.8	▲ 15.2	
Visc @ 100°C	cSt	ASTM D445	15.4	A 11.5	9 .3	9 .9	

Customer Id: GFL094 Sample No.: GFL0103402 Lab Number: 06232130 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data: Sean Felton +1 919-379-4092 sfelton@wearcheckusa.com

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

RECOMMENDE	D ACTIONS			
Action	Status	Date	Done By	Description
Change Fluid			?	We recommend that you drain the oil from the component if this has not already been done.
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



25 Apr 2024 Diag: Angela Borella

We advise that you check the fuel injection system. 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 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.





17 Apr 2024 Diag: Wes Davis

We advise that you check the fuel injection system. 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 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.



15 Jan 2024 Diag: Wes Davis



The oil change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for topup/fill. Resample at the next service interval to monitor. No other corrective action is recommended at this time.All component wear rates are normal. Light fuel dilution occurring. No other contaminants were detected in the oil. Additive levels indicate the addition of a different brand, or type of oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT



Diesel Engine Fluid PETRO CANADA DURON SHP 15W40 (11 GAL)

DIAGNOSIS

(EIB906)

3665

Recommendation

We advise that you check the fuel injection system. 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.

Wear

Area

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.

SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0103402	GFL0072145	GFL0072139
Sample Date		Client Info		08 Jul 2024	25 Apr 2024	17 Apr 2024
Machine Age	hrs	Client Info		21040	20678	20643
Oil Age	hrs	Client Info		154	387	344
Oil Changed		Client Info		Changed	Changed	Not Changd
Sample Status				SEVERE	SEVERE	SEVERE
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>75	9	26	21
Chromium	ppm	ASTM D5185m	>5	1	2	1
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m	>2	<1	<1	0
Silver	ppm	ASTM D5185m	>2	0	<1	<1
Aluminum	ppm	ASTM D5185m	>15	3	5	2
Lead	ppm	ASTM D5185m	>25	<1	2	0
Copper	ppm	ASTM D5185m	>100	2	2	3
Tin	ppm	ASTM D5185m	>4	<1	1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		<1	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	5	4	5
Barium	ppm	ASTM D5185m	0	0	0	3
Molybdenum	ppm	ASTM D5185m	60	63	54	50
Manganese	ppm	ASTM D5185m	0	<1	<1	1
Magnesium	ppm	ASTM D5185m	1010	891	771	768
Calcium	ppm	ASTM D5185m	1070	1030	958	911
Phosphorus	ppm	ASTM D5185m	1150	967	888	829
Zinc	ppm	ASTM D5185m	1270	1179	999	982
Sulfur	ppm	ASTM D5185m	2060	3017	2522	2758
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	9	16	12
Sodium	ppm	ASTM D5185m		125	38	34
Potassium	ppm	ASTM D5185m	>20	4	5	<1
Fuel	%	ASTM D3524	>3.0	A 8.9	1 7.8	▲ 15.2
Glycol	%	*ASTM D2982		NEG	NEG	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.3	0.5	0.4
Nitration	Abs/cm	*ASTM D7624	>20	6.7	8.8	8.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.2	18.5	18.8
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.9	15.3	15.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.1	6.7	7.3



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	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	ERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	11.5	9 .3	▲ 9.9
GRAPHS						
Ferrous Alloys						
	1	1220220				
D- Iron chromium	11					
n nickel						
0						
o	11					
0-						
		VVV VV	A			
M M	-1	1100	A I			

ul18/73



: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Received

Diagnosed

Tested

: 10 Jul 2024

: 12 Jul 2024

Sep 26/1

Feb4/16

60

Mar2/1

Mar27/18

Non-ferrous Metals

Dec12/1



GFL Environmental - 094 - Cedartown 2097 Buchanan Highway Cedartown, GA : 12 Jul 2024 - Sean Felton US 30125 Contact: WILLIAM FOSTER william.foster@gflenv.com T: (800)207-6618 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) E:



Report Id: GFL094 [WUSCAR] 06232130 (Generated: 07/15/2024 11:36:16) Rev: 1

Certificate 12367

Laboratory

Sample No.

Lab Number : 06232130

Unique Number : 11115623

: GFL0103402

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.

Test Package : FLEET (Additional Tests: Glycol, PercentFuel)

Submitted By: Darrell Welch

Page 4 of 4