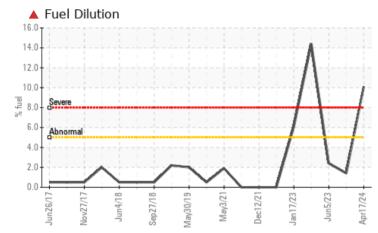
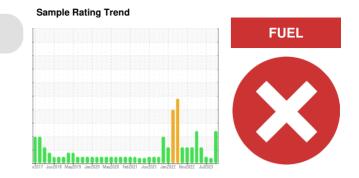


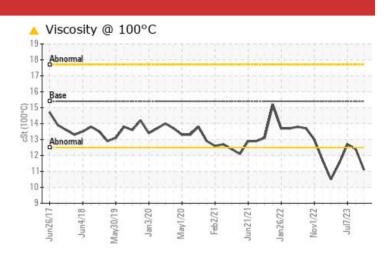
PROBLEM SUMMARY

Area (EIB860) 10801 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	ATTENTION	NORMAL		
Fuel	%	ASTM D3524	>5	10.1	1.4	<1.0		
Visc @ 100°C	cSt	ASTM D445	15.4	11.1	12.4	12.7		

Customer Id: GFL095 Sample No.: GFL0072137 Lab Number: 06155592 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		
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



11 Jan 2024 Diag: Don Baldridge

Resample at the next service interval to monitor.All component wear rates are normal. Fuel content negligible. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.



view report



07 Jul 2023 Diag: Wes Davis

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.



05 Jun 2023 Diag: Wes Davis

Resample at the next service interval to monitor.All component wear rates are normal. Light fuel dilution occurring. 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 condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Sample Rating Trend

FUEL

PETRO CANADA DURON SHP 15W40 (11 GAL)

DIAGNOSIS

Diesel Engine

(EIB860)

10801

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.

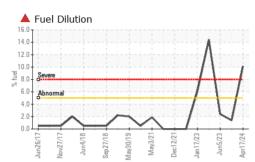
Fluid Condition

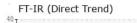
The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

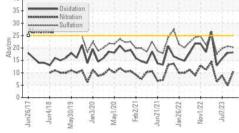
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0072137	GFL0072110	GFL0074603
Sample Date		Client Info		17 Apr 2024	11 Jan 2024	07 Jul 2023
Machine Age	hrs	Client Info		16568	16229	15495
Oil Age	hrs	Client Info		492	0	237
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				SEVERE	ATTENTION	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
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	21	10	13
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	2	3	3
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m	>330	2	<1	<1
Tin	ppm	ASTM D5185m	>15	0	2	0
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	3	59	5
Barium	ppm	ASTM D5185m	0	4	<1	0
Molybdenum	ppm	ASTM D5185m	60	52	42	57
Manganese	ppm	ASTM D5185m	0	1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	797	509	816
Calcium	ppm	ASTM D5185m	1070	927	1508	998
Phosphorus	ppm	ASTM D5185m	1150	892	717	848
Zinc	ppm	ASTM D5185m	1270	1077	893	1081
Sulfur	ppm	ASTM D5185m	2060	2888	2494	3145
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	12	4
Sodium	ppm	ASTM D5185m		21	18	10
Potassium	ppm	ASTM D5185m	>20	3	<1	3
Fuel	%	ASTM D3524	>5	1 0.1	1.4	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.1	0.5
Nitration	Abs/cm	*ASTM D7624	>20	10.2	4.8	8.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.3	20.7	19.8
FLUID DEGRAD		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.2	18.0	15.8
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.1	9.2	8.1

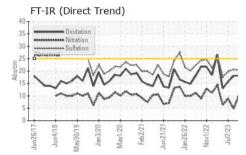


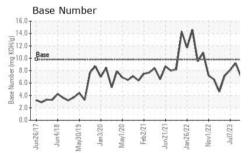
OIL ANALYSIS REPORT



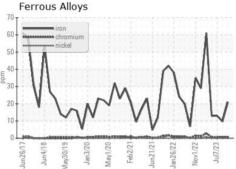




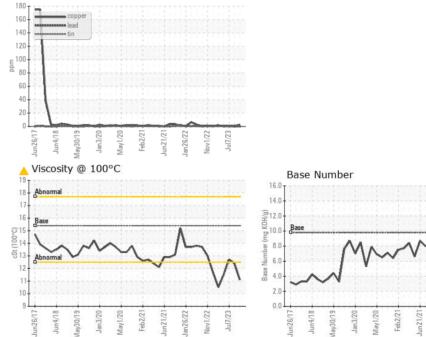




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	11.1	12.4	12.7
GRAPHS						
Forroug Allove						







: WearCheck USA - 501 Madison Ave., Cary, NC 27513 GFL Environmental - 095 - Atlanta West : 22 Apr 2024 2699 Cochran Industrial Blvd : 25 Apr 2024 Douglasville, GA : 25 Apr 2024 - Wes Davis US 30127-1332 Contact: Darrell Welch darrell.welch@gflenv.com T: (800)207-6618 E:



Lab Number : 06155592 Tested Unique Number : 10991015 Diagnosed Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel) Certificate 12367 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)

Received

Report Id: GFL095 [WUSCAR] 06155592 (Generated: 04/25/2024 08:10:27) Rev: 1

Laboratory

Sample No.

: GFL0072137

Submitted By: Darrell Welch

Page 4 of 4

Nov1/22

an26/22