

lun9/23

Apr18/23

16 Base

RECOM	MEND	ATION

Dec14/22

Abnormal

20.0

15.0 ______ % 10.0

5.0

0.0

0ct26/22

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.

Jan2/23

Jan20/23

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	10							
	6	×						
Aug28/23	0ct26/22	Dec14/22	Dec15/22	Jan 2/23	Jan20/23	Apr18/23	Jun9/23	Aug28/23
	FST RESI							

PROBLEMATIC TEST RESULTS								
Sample Status				SEVERE	NORMAL	SEVERE		
Fuel	%	ASTM D3524	>3.0	🛑 16.6	0.3	23.7		
Visc @ 100°C	cSt	ASTM D445	15.4	🔺 11.6	12.1	10.0		

Customer Id: GFL455 Sample No.: GFL0080815 Lab Number: 05940519 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 <u>customerservice@wearcheck.com</u>

RECOMMENDED ACTIONS							
Action	Status	Date	Done By	Description			
Change Fluid			?	We recommend that you drain the oil and perform a filter service on this component if not already done.			
Change Filter			?	We recommend that you drain the oil and perform a filter service on this component if not already 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



09 Jun 2023 Diag: Wes Davis

No corrective action is recommended at this time. 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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.





18 Apr 2023 Diag: Jonathan Hester

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. The oil is no longer serviceable due to the presence of contaminants.

20 Jan 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 oil is no longer serviceable due to the presence of contaminants.

view report





OIL ANALYSIS REPORT

Sample Rating Trend



Component Diesel Engine Fluid

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

SAMPLE INFORMATION method

DIAGNOSIS Recommendation

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.

Machine Id 4522M

Wear

All component wear rates are normal.

Contamination

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

Fluid Condition

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.

Sample Number		Client Info		GFL0080815	GFL0080786	GFL0080746
Sample Date		Client Info		28 Aug 2023	09 Jun 2023	18 Apr 2023
Machine Age	hrs	Client Info		25670	25670	23056
Oil Age	hrs	Client Info		25670	600	600
Oil Changed		Client Info		Not Changd	Changed	Changed
Sample Status				SEVERE	NORMAL	SEVERE
CONTAMINAT	ION	method	limit/base	current	history1	history2
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	39	29	28
Chromium	ppm	ASTM D5185m	>20	2	<1	2
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m	>2	<1	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	1	<1	2
Lead	ppm	ASTM D5185m	>40	<1	<1	0
Copper	ppm	ASTM D5185m	>330	1	1	1
Tin	ppm	ASTM D5185m	>15	0	<1	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	2	6	<1
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	52	64	40
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	832	1016	660
Calcium	ppm	ASTM D5185m	1070	925	1242	745
Phosphorus	ppm	ASTM D5185m	1150	860	1085	699
Zinc	ppm	ASTM D5185m	1270	1086	1402	885
Sulfur	ppm	ASTM D5185m	2060	2919	4031	2467
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	8	4
Sodium	ppm	ASTM D5185m		7	1	5
Potassium	ppm	ASTM D5185m	>20	3	2	0
Fuel	%	ASTM D3524	>3.0	• 16.6	0.3	23.7
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	1.1	0.3	0.8
Nitration	Abs/cm	*ASTM D7624	>20	14.1	5.9	14.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.0	19.0	22.2
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	26.4	15.2	30.0
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.7	8.1	5.0
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OIL ANALYSIS REPORT

