

8

6

4

2

Jul21/22

0ct31/22

Aug23/23

RECOMMENDATION

20.0

15.0

10.0

5.0 à 0.0

/22

Jul21

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.

Jul14/23

PROBLEMATIC TEST RESULTS								
Sample Status				SEVERE	SEVERE	SEVERE		
Fuel	%	ASTM D3524	>3.0	🛑 31.9	49.5	934.7		
Visc @ 100°C	cSt	ASTM D445	15.4	• 7.2	9.5	6.3		

Vov21/22

Vov26/22

Dec16/22 -

Jul14/23

Aug8/23

lug23/23

Customer Id: GFL955 Sample No.: GFL0086050 Lab Number: 05937724 Test Package: FLEET



Aug8/23 -

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



FUEL

08 Aug 2023 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.



view report

14 Jul 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.







Report Id: GFL955 [WUSCAR] 05937724 (Generated: 08/30/2023 12:47:53) Rev: 1

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.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.





OIL ANALYSIS REPORT

Sample Rating Trend



MACK 420055 Component **Diesel Engine**

Fluid PETRO CANADA DURON SHP 15W40 (--- LTR)

DIAGNOSIS	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		GFL0086050	GFL0086039	GFL0083546
We advise that you check the fuel injection system.	Sample Date		Client Info		23 Aug 2023	08 Aug 2023	14 Jul 2023
We recommend that you drain the oil from the	Machine Age	hrs	Client Info		9237	9112	8926
component if this has not already been done. We	Oil Age	hrs	Client Info		311	186	1143
condition.	Oil Changed		Client Info		N/A	Not Changd	Changed
Wear	Sample Status				SEVERE	SEVERE	SEVERE
All component wear rates are normal.	CONTAMINAT	ION	method	limit/base	current	history1	history2
Contamination	Glycol		WC Method		NEG	NEG	NEG
There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.	WEAR METAL	S	method	limit/base	current	history1	history2
Fluid Condition	Iron	ppm	ASTM D5185m	>120	1	5	4
The BN result indicates that there is suitable	Chromium	ppm	ASTM D5185m	>20	0	0	0
alkalinity remaining in the oil. Fuel is present in the	Nickel	ppm	ASTM D5185m	>5	0	<1	0
oil and is lowering the viscosity. The oil is no longer	Titanium	ppm	ASTM D5185m	>2	0	0	0
serviceable due to the presence of contaminants.	Silver	ppm	ASTM D5185m	>2	0	<1	0
	Aluminum	ppm	ASTM D5185m	>20	0	3	2
	Lead	ppm	ASTM D5185m	>40	<1	<1	<1
	Copper	ppm	ASTM D5185m	>330	0	<1	<1
	Tin	ppm	ASTM D5185m	>15	0	<1	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	Cadmium	ppm	ASTM D5185m		0	0	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	0	0	<1	8
	Barium	ppm	ASTM D5185m	0	0	0	0
	Molybdenum	ppm	ASTM D5185m	60	39	31	38
	Manganese	ppm	ASTM D5185m	0	0	0	0
	Magnesium	ppm	ASTM D5185m	1010	683	437	540
	Calcium	ppm	ASTM D5185m	1070	753	514	646
	Phosphorus	ppm	ASTM D5185m	1150	699	482	611
	Zinc	ppm	ASTM D5185m	1270	858	592	747
	Sulfur	ppm	ASTM D5185m	2060	2561	1443	1912
	CONTAMINAN	ITS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	3	4	4
	Sodium	ppm	ASTM D5185m		0	0	0
	Potassium	ppm	ASTM D5185m	>20	1	2	2
	Fuel	%	ASTM D3524	>3.0	ම 31.9	49.5	934.7
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844	>4	0.1	0.1	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	5.7	7.7	7.3
	Sulfation	Abs/.1mm	*ASTM D7415	>30	15.5	15.6	16.3
	FLUID DEGRA		method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	10.6	11.4	11.6
	Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.7	5.9	6.0



50.

40 n

10.0

0.0

20

15

cSt (100°C)

10.0

4.0

0.0

(mg KOH/g) 6 umber

Base

OIL ANALYSIS REPORT



^{* -} 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)

Ig23/23

Aug8/23 .

US 36108

Jul14/23

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

6.3

T: F: