

Abnorma

Feb28/17

8

6

4 Jun13/16

RECOMMENDATION

Jan 11/17

₽ ₽ ₽ ₽ ₽ 4.0 3.0 2.0

1.0

0.0

Jun 13/1

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.

Jul27/17

Mar21/18

PROBLEMATIC TEST RESULTS								
Sample Status				SEVERE	SEVERE	NORMAL		
Fuel	%	ASTM D3524	>3.0	🛑 5.2	7.9	<1.0		
Visc @ 100°C	cSt	ASTM D445	15.4	A 12.2	1 2.0	12.9		

Nov13/17

Feb27/19 .

Jan22/20

0ct17/18

Jan 18/21

Feb17/23

Customer Id: GFL001 Sample No.: GFL0103262 Lab Number: 06029098 Test Package: FLEET



Dec6/18 .

Feb27/19

Jan 15/20

Sep8/23

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			
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



08 Sep 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.



09 Jun 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.

01 May 2023 Diag: Jonathan Hester

VISCOSITY



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 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







OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 2412 MACK GU713 Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (48 QTS)

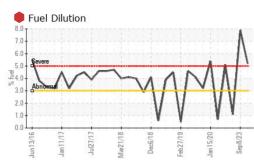
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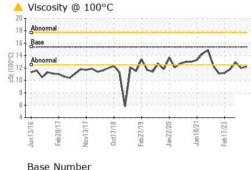
FUEL

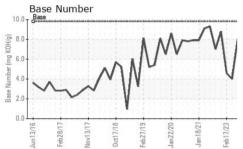
DIAGNOSIS	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		GFL0103262	GFL0089291	GFL0056726
We advise that you check the fuel injection system.	Sample Date		Client Info		06 Dec 2023	08 Sep 2023	09 Jun 2023
The oil change at the time of sampling has been	Machine Age	hrs	Client Info		28970	28473	27857
noted. We recommend an early resample to	Oil Age	hrs	Client Info		0	0	348
monitor this condition.	Oil Changed		Client Info		Changed	Changed	Changed
Wear	Sample Status				SEVERE	SEVERE	NORMAL
All component wear rates are normal.	·			11 1. 11			
Contamination	CONTAMINAT	ION	method	limit/base	current	history1	history2
There is a high amount of fuel present in the oil.	Water		WC Method	>0.2	NEG	NEG	NEG
Tests confirm the presence of fuel in the oil.	Glycol		WC Method		NEG	NEG	NEG
Fluid Condition The BN result indicates that there is suitable	WEAR METAL	S	method	limit/base	current	history1	history2
alkalinity remaining in the oil. The oil is no longer	Iron	ppm	ASTM D5185m	>120	8	8	4
serviceable due to the presence of contaminants.	Chromium	ppm	ASTM D5185m	>20	<1	0	0
	Nickel	ppm	ASTM D5185m		0	<1	<1
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		1	0	0
	Lead	ppm	ASTM D5185m		0	<1	<1
	Copper	ppm	ASTM D5185m	>330	<1	1	<1
	Tin	ppm	ASTM D5185m		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	1	0	<1
	Barium	ppm	ASTM D5185m	0	3	0	0
	Molybdenum	ppm	ASTM D5185m	60	58	57	56
	Manganese	ppm	ASTM D5185m	0	0	<1	0
	Magnesium	ppm	ASTM D5185m	1010	826	928	872
	Calcium	ppm	ASTM D5185m	1070	979	1102	1022
	Phosphorus	ppm	ASTM D5185m	1150	926	951	973
	Zinc	ppm	ASTM D5185m	1270	1098	1210	1166
	Sulfur	ppm	ASTM D5185m	2060	2961	3510	2995
	CONTAMINAN	ITS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	4	4	4
	Sodium	ppm	ASTM D5185m		<1	3	<1
	Potassium	ppm	ASTM D5185m	>20	2	2	1
	Fuel	%	ASTM D3524	>3.0	6 5.2	• 7.9	<1.0
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844	>4	0.8	0.7	0.3
	Nitration		*ASTM D7624	>20	10.0	9.7	8.1
	Sulfation		*ASTM D7415		19.5	19.8	19.2
	FLUID DEGRA		method	limit/base	current	history1	history2
	Oxidation	Abs/ 1mm	*ASTM D7414	>25	15.2	15.7	15.9
	Base Number (BN)				6.0	5.6	8.0
	Dase Number (DN)	ing itony	101102030	0.0	0.0	0.0	0.0



OIL ANALYSIS REPORT





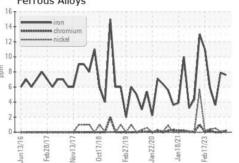


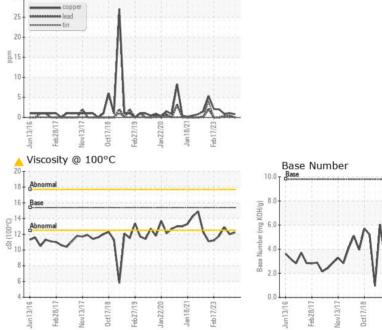
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	12.2	1 2.0	12.9
GRAPHS						

Ferrous Alloys

Non-ferrous Metals

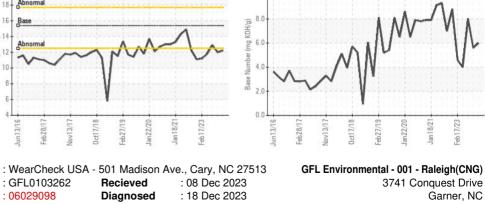
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: 08 Dec 2023

: 18 Dec 2023



US 27529 Contact: Craig Johnson craig.johnson@gflenv.com T: (919)662-7100 F: (919)662-7130



: 10778889 Unique Number Diagnostician : Wes Davis Test Package : FLEET (Additional Tests: PercentFuel) Certificate L2367 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)

Recieved

Diagnosed

: GFL0103262

: 06029098

Laboratory

Sample No.

Lab Number