

RECOMMENDATION

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.

PROBLEMATIC TEST RESULTS							
Sample Status				SEVERE	NORMAL	NORMAL	
Fuel	%	ASTM D3524	>3.0	🛑 11.9	<1.0	<1.0	
Visc @ 100°C	cSt	ASTM D445	15.4	🛑 10.0	13.2	13.6	

Customer Id: GFL821 Sample No.: GFL0090149 Lab Number: 05972508 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		
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 Dec 2022 Diag: Wes Davis

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.



04 Jun 2022 Diag: Wes Davis



 \checkmark

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.

18 Dec 2020 Diag: Wes Davis

NORMAL



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 condition of the oil is acceptable for the time in service.



view report







OIL ANALYSIS REPORT

Sample Rating Trend

FUEL

X



Machine Id 921042-205212 Component

Diesel Engine

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

	SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
	Sample Number		Client Info		GFL0090149	GFL0051389	GFL005195
njection system.	Sample Date		Client Info		05 Oct 2023	11 Dec 2022	04 Jun 2022
npling has been resample to	Machine Age	hrs	Client Info		23232	23001	22495
	Oil Age	hrs	Client Info		600	600	700
	Oil Changed		Client Info		Changed	Changed	Changed
al.	Sample Status				SEVERE	NORMAL	NORMAL
ai.	CONTAMINA	TION	method	limit/base	current	history1	history2
esent in the oil. I in the oil.	Glycol		WC Method		NEG	NEG	NEG
	WEAR META	LS	method	limit/base	current	history1	history2
e is suitable I is present in the	Iron	ppm	ASTM D5185m	>120	27	7	6
	Chromium	ppm	ASTM D5185m	>20	<1	0	<1
oil is no longer	Nickel	ppm	ASTM D5185m	>5	0	0	1
contaminants.	Titanium	ppm	ASTM D5185m	>2	0	0	0
	Silver	ppm	ASTM D5185m	>2	0	0	<1
	Aluminum	ppm	ASTM D5185m	>20	8	1	3
	Lead	ppm	ASTM D5185m	>40	<1	0	<1
	Copper	ppm	ASTM D5185m	>330	3	<1	1
	Tin	ppm	ASTM D5185m	>15	0	0	<1
	Antimony	ppm	ASTM D5185m				
	Vanadium	ppm	ASTM D5185m		0	0	<1
	Cadmium	ppm	ASTM D5185m		0	0	<1
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	0	5	1	3
	Barium	ppm	ASTM D5185m	0	0	0	0
	Molybdenum	ppm	ASTM D5185m	60	52	58	58
	Manganese	ppm	ASTM D5185m	0	<1	0	<1
	Magnesium	ppm	ASTM D5185m	1010	786	846	865
	Calcium	ppm	ASTM D5185m	1070	854	1027	1034
	Phosphorus	ppm	ASTM D5185m	1150	859	953	993
	Zinc	ppm	ASTM D5185m	1270	1064	1122	1225
	Sulfur	ppm	ASTM D5185m	2060	2923	3422	2975
	CONTAMINA	NTS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	9	2	3
	Sodium	ppm	ASTM D5185m		41	34	12
	Potassium	ppm	ASTM D5185m	>20	7	3	2
	Fuel	%	ASTM D3524	>3.0	🛑 11.9	<1.0	<1.0
			method	limit/base	current	history1	history2
	INFRA-RED						
	INFRA-RED Soot %	%	*ASTM D7844	>4	0.9	0.2	0.2
		% Abs/cm	*ASTM D7844 *ASTM D7624		0.9 7.7	0.2 9.5	0.2 7.6
	Soot %			>20			
	Soot % Nitration	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415	>20	7.7	9.5	7.6 17.7
	Soot % Nitration Sulfation	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415	>20 >30 limit/base	7.7 20.1	9.5 19.8	7.6

DIAGNOSIS

Recommendation

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.

Wear

All component wear rates are normal.

Contamination

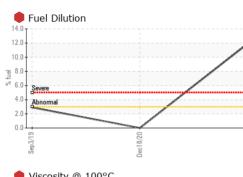
There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

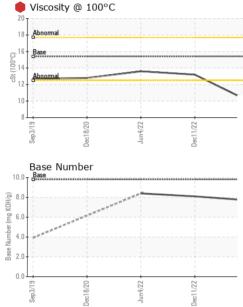
Fluid Condition

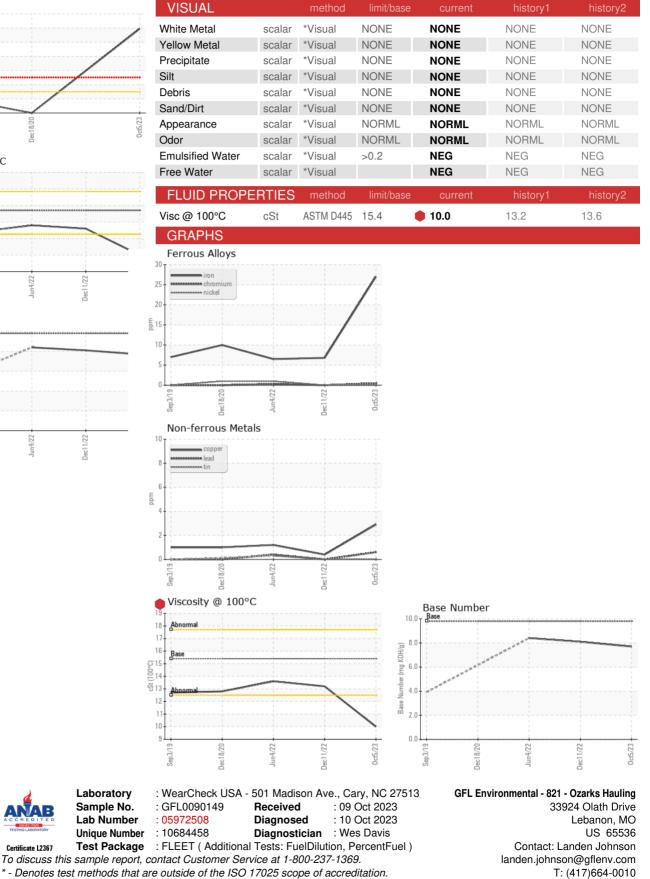
The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

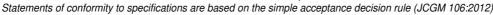


OIL ANALYSIS REPORT









Certificate L2367

Submitted By: GFL821, GFL824 and GFL829 - Landen Johnson

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