



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	SEVERE	NORMAL		
Fuel	%	ASTM D3524	>3.0	6.0	22.6	<1.0		

Customer Id: GFL891 Sample No.: GFL0093549 Lab Number: 06011810 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



03 Oct 2023 Diag: Wes Davis

06 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.





18 Jun 2020 Diag: Wes Davis



Check for low coolant level. The oil change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition. No other corrective action is recommended at this time. The fluid was specified as (GENERIC) NOT GIVEN, however, a fluid match indicates that this fluid is SAE 40 Low-Ash Natural Gas Engine Oil. Please confirm the oil type and grade on your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.All component wear rates are normal. Fuel content negligible. Water treatment chemicals present, indicating slow coolant leak. Test for glycol is negative. Additive levels indicate the addition of a different brand, or type of oil. The

condition of the oil is suitable for further service.

condition of the oil is acceptable for the time in service (see recommendation).

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





OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 426064-402205 Component

Diesel Engine

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

SAMPLE INFO		method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0093549	GFL0077244	GFL0083672
Sample Date		Client Info		19 Nov 2023	03 Oct 2023	06 Jul 2023
Machine Age	hrs	Client Info		33244	33183	0
Oil Age	hrs	Client Info		71	625	0
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				SEVERE	SEVERE	NORMAL
CONTAMINA	TION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR META	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	5	28	12
Chromium	ppm	ASTM D5185m	>20	0	2	<1
Nickel	ppm	ASTM D5185m	>5	0	<1	0
Titanium	ppm	ASTM D5185m	>2	<1	1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	1	2	5
Lead	ppm	ASTM D5185m	>40	<1	4	0
Copper	ppm	ASTM D5185m	>330	4	30	3
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	<1	<1
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	57	44	59
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	1010	842	711	949
Calcium	ppm	ASTM D5185m	1070	953	781	1225
Phosphorus	ppm	ASTM D5185m	1150	947	742	1039
Zinc	ppm	ASTM D5185m	1270	1085	901	1315
Sulfur	ppm	ASTM D5185m	2060	2731	2197	3897
Lithium	ppm	ASTM D5185m				
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	8	5
Sodium	ppm	ASTM D5185m		0	2	4
Potassium	ppm	ASTM D5185m	>20	2	4	5
Fuel	%	ASTM D3524	>3.0	6.0	22.6	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.3	1.3	0.5
Nitration	Abs/cm	*ASTM D7624	>20	4.9	8.3	10.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.6	18.2	19.2

DIAGNOSIS

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

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



OIL ANALYSIS REPORT



US 73128

F:

19/23

16.2

7.2

history2

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

history

NEG

NEG

13.0