

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	MARGINAL	SEVERE			
Fuel	%	ASTM D3524	>3.0	A 7.9	1 .9	1 0.3			
Visc @ 100°C	cSt	ASTM D445	15.4	12.3	13.3	🔺 11.6			

Customer Id: GFL415 Sample No.: GFL0108878 Lab Number: 06124593 Test Package: FLEET



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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

MARAENDED ACTION



FUEL

05 Dec 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. Light fuel dilution occurring. No other contaminants were detected 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.



view report



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.

19 Dec 2022 Diag: Doug Bogart



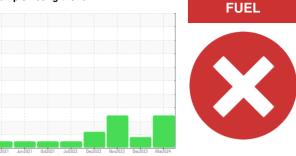
We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. There is a moderate amount of fuel present in the oil. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.





OIL ANALYSIS REPORT

Sample Rating Trend





Component Diesel Engine Fluid

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

SAMPLE INFORMATION method

A 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.

Machine Id 4567M

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.

Sample Date Client Info 19 Mar 2024 05 Dec 2023 28 Nov 2023 Machine Age hrs Client Info 21338 21130 21073 Oil Age hrs Client Info 21073 21073 18604 Oil Changed Client Info Not Changed Client Info Not Changed Changed Sample Status Client Info Not Changed NA Changed SEVERE MARGINAL SEVERE CONTAMINATION method Imit/base current history1 history2 Water WC Method >0.2 NEG NEG NEG Chromium ppm ASTM 05185m >20 0 -1 1 Nickel ppm ASTM 05185m >20 0 0 0 Romium ppm ASTM 05185m >20 -1 4 2 Lead ppm ASTM 05185m >20 -1 4 2 Lead ppm ASTM 05185m >20	Sample Number		Client Info		GFL0108878	GFL0101461	GFL0101452
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Manganese ppm ASTM D5185m 0 0 <1 <1 Magnesium ppm ASTM D5185m 1010 867 893 848 Calcium ppm ASTM D5185m 1010 967 1113 996 Phosphorus ppm ASTM D5185m 1070 976 1113 996 Phosphorus ppm ASTM D5185m 1150 972 980 948 Zinc ppm ASTM D5185m 1270 1163 1207 1122 Sulfur ppm ASTM D5185m 2060 3303 2952 2482 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 2 4 4 Sodium ppm ASTM D5185m >20 0 9 0 Fuel % ASTM D5185m >20 0 9 0 Fuel % ASTM D5185m >20 0 9 0 Soot % % *ASTM D7844 <td< td=""><td>Barium</td><td>ppm</td><td>ASTM D5185m</td><td>0</td><th>0</th><td>0</td><td>0</td></td<>	Barium	ppm	ASTM D5185m	0	0	0	0
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	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.0	13.9	19.1
	Base Number (BN)				8.6	8.9	7.2



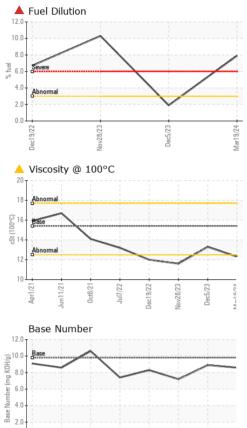
0.0 Apr1/21

Jun11/21-

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OIL ANALYSIS REPORT

VISUAL



		Approximation (12/10/10/10/10/10/10/10/10/10/10/10/10/10/	Juli/22	Nov28/23	(D)HOX Base Mumh ase Base 2	.0 Base	Juni 1/21 Oct8/21	Jul1/22	Nov28/23	Dec5/23
		19 18 Abnormal			12		e Number			
- 10 - 12	3 yr	widd Uiscosity @ 100°C	Juli/22	Nov28/23	Mar19/24					
Juli/22	Det5/23 - Det5/23 -	udd 20 10 10 10 10 10 10 10 10 10 1	bec19/22	Nov28/23 Dec5/23	Mar19/24					
Juf722 Dec19/22 Dec19/22	Det5/23	Visc @ 100°C GRAPHS Ferrous Alloys	cSt	ASTM D445	13.4	▲ 12	.3	13.3	▲ 11.	.0
		FLUID PROPE		method	limit/base		current	history1		istory2
°C		Emulsified Water Free Water	scalar scalar	*Visual *Visual	>0.2	NE		NEG NEG	NE	
Dec5/23	Mar19,24	Appearance Odor	scalar scalar	*Visual *Visual	NORML NORML		ORML ORML	NORML NORML		ORML ORML
	4	Sand/Dirt	scalar	*Visual	NONE		ONE	NONE		DNE
\sim		Debris	scalar	*Visual	NONE		ONE	NONE		DNE
		Silt	scalar	*Visual	NONE		ONE	NONE		DNE
	/	Yellow Metal Precipitate	scalar scalar	*Visual *Visual	NONE NONE		ONE	NONE		DNE DNE
<hr/>		White Metal	scalar	*Visual	NONE		ONE	NONE		DNE

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Submitted By: Frank Wolak

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