



RECOMMENDATION

We advise that you check for the source of the coolant leak. We recommend that you drain the oil from the component if this has not already been done. We advise that you flush the component thoroughly before re-filling with oil. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

PROBLEMATIC TEST RESULTS								
Sample Status				SEVERE	NORMAL	NORMAL		
Potassium	ppm	ASTM D5185m	>20	<u> </u>	40	10		
Glycol	%	*ASTM D2982		4 0.10	NEG	NEG		

Customer Id: GFL652 Sample No.: GFL0111898 Lab Number: 06122106 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.			
Flush System			?	We advise that you flush the component thoroughly before re-filling with oil.			
Resample			?	We recommend an early resample to monitor this condition.			
Information Required			?	Please specify the brand, type, and viscosity of the oil on your next sample.			
Check Glycol Access			?	We advise that you check for the source of the coolant leak.			

HISTORICAL DIAGNOSIS





Resample at the next service interval to monitor.All component wear rates are normal for time on oil. 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.



view report

09 Feb 2024 Diag: Sean Felton



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11 Jan 2024 Diag: Wes Davis

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your 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

GLYCOL



DIAGNOSIS

your next sample.

Contamination

Fluid Condition

All component wear rates are normal.

Test for glycol is positive. There is a high

concentration of glycol present in the oil.

Wear

Recommendation

(34744UA) 813000 Component

Diesel Engine

DIESEL ENGINE OIL SAE 40 (--- GAL)

SAMPLE INFORMATION method GFL0111898 GFL0111827 GFL0108252 Sample Number **Client Info** We advise that you check for the source of the Sample Date Client Info 18 Mar 2024 27 Feb 2024 09 Feb 2024 coolant leak. We recommend that you drain the oil Machine Age hrs Client Info 3890 3749 3627 from the component if this has not already been Oil Age hrs Client Info 141 3749 3627 done. We advise that you flush the component Oil Changed Not Changd **Client Info** Changed Not Changd thoroughly before re-filling with oil. We recommend Sample Status SEVERE NORMAL NORMAL an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on CONTAMINATION Fuel WC Method >3.0 <1.0 <1.0 <1.0 WC Method Water >0.2 NEG NEG NEG WEAR METALS method history? 8 23 ASTM D5185m >120 15 Iron ppm >20 Chromium ppm ASTM D5185m <1 <1 <1 Nickel ASTM D5185m >5 2 ppm <1 1 The BN result indicates that there is suitable 0 ASTM D5185m >2 Titanium ppm <1 <1 alkalinity remaining in the oil. The oil is no longer Silver ppm ASTM D5185m >2 0 0 <1 serviceable due to the presence of contaminants. Aluminum ASTM D5185m >20 2 2 ppm 1 ASTM D5185m >40 0 Lead ppm <1 1 ASTM D5185m 2 2 Copper >330 1 ppm 2 Tin ppm ASTM D5185m >15 <1 1 0 Vanadium ASTM D5185m 0 ppm <1 Cadmium ppm ASTM D5185m 0 0 <1 **ADDITIVES** method history2 5 6 250 Boron ppm ASTM D5185m 12 Barium ppm ASTM D5185m 10 0 0 13 99 63 56 Molybdenum ppm ASTM D5185m 100 Manganese ASTM D5185m <1 <1 <1 ppm 450 903 Magnesium ppm ASTM D5185m 1122 829 Calcium ASTM D5185m 3000 1128 1331 1067 ppm Phosphorus ppm ASTM D5185m 1150 1008 1014 960 Zinc ASTM D5185m 1350 1218 1490 1101 ppm Sulfur 4250 3263 3241 ppm ASTM D5185m 3321 CONTAMINANTS Silicon ASTM D5185m >25 6 5 4 ppm 5 Sodium ASTM D5185m >216 63 0 ppm Potassium ASTM D5185m >20 560 40 10 ppm Glycol % *ASTM D2982 0.10 NEG NEG **INFRA-RED** % 0.4 1.2 0.9 Soot % *ASTM D7844 >4 Nitration Abs/cm *ASTM D7624 >20 6.9 9.7 8.5 21.3 Sulfation *ASTM D7415 >30 18.7 19.8 Abs/.1mm FLUID DEGRADATION method *ASTM D7414 >25 13.7 16.0 14.6 Oxidation Abs/.1mm

Base Number (BN) mg KOH/g ASTM D2896 8.5

Report Id: GFL652 [WUSCAR] 06122106 (Generated: 03/20/2024 15:37:19) Rev: 1

6.9

9.2

7.6



OIL ANALYSIS REPORT





Nov8/23

Dec12/23

Sep27/23

Jec13/23

lan 11/24 Feb 9/24

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	14.4	14.3	13.8	13.8
CRADHS						

Ferrous Alloys



Certificate L2367

Submitted By: TECHNICIAN ACCOUNT