

PROBLEM SUMMARY



COMPONENT CONDITION SUMMARY

Machine Id

Component **Diesel Engine**

Fluic

822041-100560







RECOMMENDATION

We advise that you check the fuel injection system. Oil and filter 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		
Sodium	ppm	ASTM D5185m		<u> </u>	4	7		
Fuel	%	ASTM D3524	>3.0	e 24.0	<1.0	<1.0		
Visc @ 100°C	cSt	ASTM D445	15.1	9.1	13.4	14.1		

Customer Id: GFL816 Sample No.: GFL0095121 Lab Number: 05978083 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 ihester@wearcheckusa.com

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			?	Oil and filter change at the time of sampling has been noted.			
Change Filter			?	Oil and filter change at the time of sampling has been noted.			
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



19 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.





19 Feb 2023 Diag: Wes Davis

NORMAL



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.

26 Aug 2022 Diag: Don Baldridge

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 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



Machine Id 822041-100560

Component **Diesel Engine** Fluid

CHEVRON DELO 400 MULTIGRADE 15W40 (--- GAL)

			Dec2018 Feb2	ula Heozolia Marzozo May	zuzi Feozuzz Aug2UZZ Feb2UZ3 Jun	2023 UCI2023	
DIAGNOSIS	- SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		GFL0095121	GFL0074757	GFL004680
We advise that you check the fuel injection system.	Sample Date		Client Info		09 Oct 2023	19 Jun 2023	19 Feb 2023
Oil and liller change at the time of sampling has been noted. We recommend an early resample to	Machine Age	hrs	Client Info		17253	2064	1755
monitor this condition.	Oil Age	hrs	Client Info		600	0	0
Woar	Oil Changed		Client Info		Changed	N/A	N/A
All component wear rates are normal.	Sample Status				SEVERE	NORMAL	NORMAL
Contamination	CONTAMINAT	ION	method	limit/base	current	history1	history2
Sodium and/or potassium levels are high. There is a high amount of fuel present in the oil.	Water		WC Method	>0.2	NEG	NEG	NEG
Fluid Condition	WEAR METAL	S	method	limit/base	current	history1	history2
Fuel is present in the oil and is lowering the	Iron	ppm	ASTM D5185m	>120	6	24	48
viscosity. The BN result indicates that there is	Chromium	ppm	ASTM D5185m	>20	<1	0	<1
suitable alkalinity remaining in the oil. The oil is no	Nickel	ppm	ASTM D5185m	>5	<1	0	3
contaminante	Titanium	ppm	ASTM D5185m	>2	0	0	0
somannallis.	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	2	7	11
	Lead	ppm	ASTM D5185m	>40	<1	0	<1
	Copper	ppm	ASTM D5185m	>330	4	2	3
	Tin	ppm	ASTM D5185m	>15	<1	0	<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		7	23	20
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		49	56	51
	Manganese	ppm	ASTM D5185m		<1	0	<1
	Magnesium	ppm	ASTM D5185m		697	756	675
	Calcium	ppm	ASTM D5185m		751	1481	1261
	Phosphorus	ppm	ASTM D5185m	1360	772	1080	874
	Zinc	ppm	ASTM D5185m	1480	934	1386	1110
	Sulfur	ppm	ASTM D5185m		2294	4112	3434
	CONTAMINAN	ITS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	7	8	4
	Sodium	ppm	ASTM D5185m		<u> </u>	4	7
	Potassium	ppm	ASTM D5185m	>20	4	<1	2
	Fuel	%	ASTM D3524	>3.0	e 24.0	<1.0	<1.0
	Glycol	%	*ASTM D2982		NEG	NEG	NEG
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844	>4	0.4	0.8	3.1
	Nitration	Abs/cm	*ASTM D7624	>20	8.3	7.7	12.5
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.8	19.5	26.3
	FLUID DEGRAI	DAT <u>IO</u> N	method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	20.3	14.4	16.1
	Base Number (BN)	ma KOH/a	ASTM D2896	12.2	72	9.0	6.0



OIL ANALYSIS REPORT



Contact/Location: Mike Howell - GFL816

ug26/22 Feb 19/23 un19/73

El Dorado, AR

US 71730

Dct9/23

T:

F:

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

14.1