

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

(YA172 Machine Id 922035 Component Diesel E Fluid DIESEL

(YA172344) GFL035

Diesel Engine Fluid DIESEL ENGINE OIL SAE 40 (42 QTS)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		GFL0102336	GFL0102288	GFL0053175
Resample at the next service interval to monitor. Please specify the	Sample Date		Client Info		01 Feb 2024	15 Sep 2023	01 Mar 2023
brand, type, and viscosity of the oil on your next sample.	Machine Age	hrs	Client Info		0	0	0
	Oil Age	hrs	Client Info		600	600	600
	Filter Age	hrs	Client Info		0	600	600
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
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WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>120	9	10	16
	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>5	1	1	1
	Titanium	ppm	ASTM D5185m	>2	0	<1	0
	Silver	ppm	ASTM D5185m	>2	0	0	<1
	Aluminum	ppm	ASTM D5185m	>20	2	1	2
	Lead	ppm	ASTM D5185m	>40	0	0	0
	Copper	ppm	ASTM D5185m	>330	1	3	6
	Tin	ppm	ASTM D5185m	>15	<1	<1	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
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CONTAMINATION	Silicon	ppm	ASTM D5185m		2	4	3
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		1	3	2
	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.8	0.6	0.7
	Nitration	Abs/cm	*ASTM D7624		8.6	7.5	8.0
	Sulfation	Abs/.1mm	*ASTM D7415		20.5	19.9	20.0
	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
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>216	2	1	2
	Boron	ppm	ASTM D5185m		0	4	6
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		<1	0	0
	Molybdenum	ppm	ASTM D5185m		64	66	59
	Manganese	ppm	ASTM D5185m	100	<1	0	<1
	Magnesium	ppm	ASTM D5185m	450	973	889	869
	Calcium	ppm	ASTM D5185m		1094	1139	1120
	Phosphorus	ppm	ASTM D5185m		1034	937	930
	Zinc	ppm	ASTM D5185m		1034	1196	1187
	Sulfur	ppm	ASTM D5185m		2764	3057	3219
	Oxidation	Abs/.1mm	*ASTM D3185111		16.1	15.0	15.0
		209/.111111		>20	10.1	15.0	15.0

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

Visc @ 100°C cSt ASTM D445 14.4

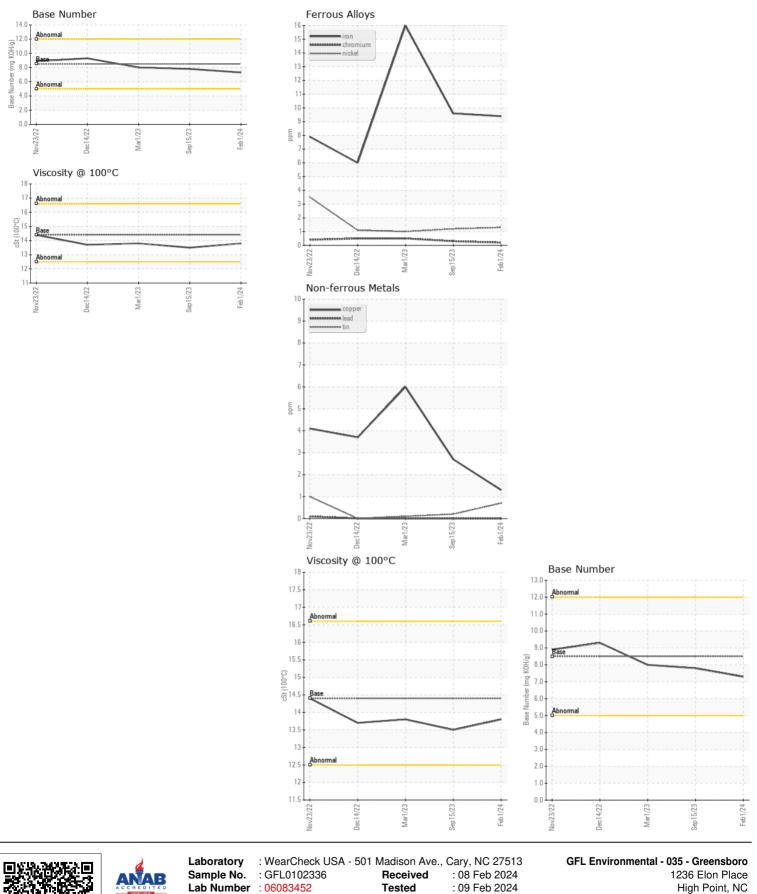
13.5

7.3

13.8

13.8

7.8 8.0



Diagnosed Unique Number : 10870897 : 09 Feb 2024 - Wes Davis Test Package : FLEET Contact: JORGE COSTA Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. jorge.costa@gflenv.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (336)668-3712 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Submitted By: JORGE COSTA

US 27263

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