



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
828123

Component
Diesel Engine

Fluid
DIESEL ENGINE OIL SAE 40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm.
Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0069950	GFL0059613	---
Sample Date		Client Info		21 Nov 2023	02 Dec 2022	---
Machine Age	mls	Client Info		0	9968	---
Oil Age	mls	Client Info		0	600	---
Filter Age	mls	Client Info		0	600	---
Oil Changed		Client Info		N/A	Changed	---
Filter Changed		Client Info		N/A	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	11	11	---
Chromium	ppm	ASTM D5185m	>20	<1	<1	---
Nickel	ppm	ASTM D5185m	>4	0	<1	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m	>3	0	<1	---
Aluminum	ppm	ASTM D5185m	>20	4	3	---
Lead	ppm	ASTM D5185m	>40	0	1	---
Copper	ppm	ASTM D5185m	>330	4	1	---
Tin	ppm	ASTM D5185m	>15	<1	<1	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

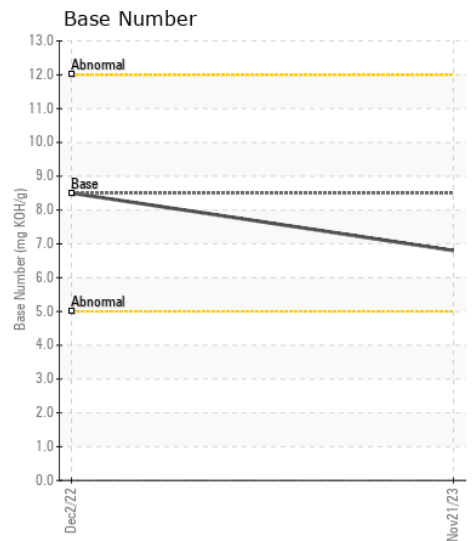
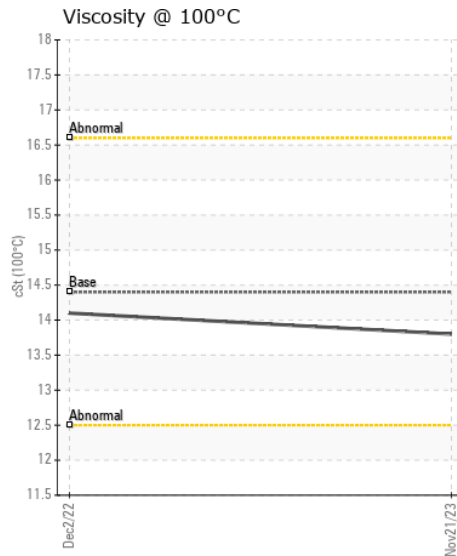
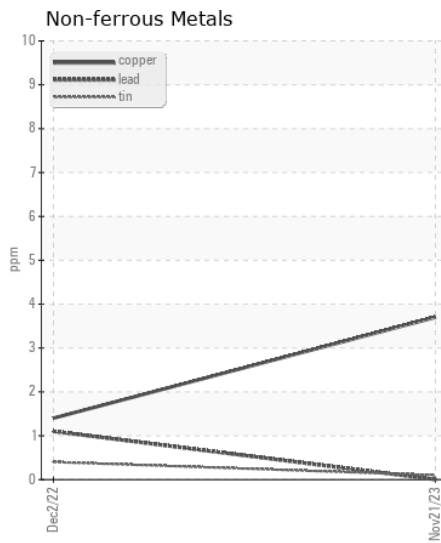
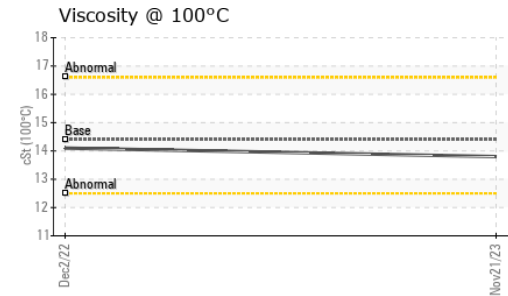
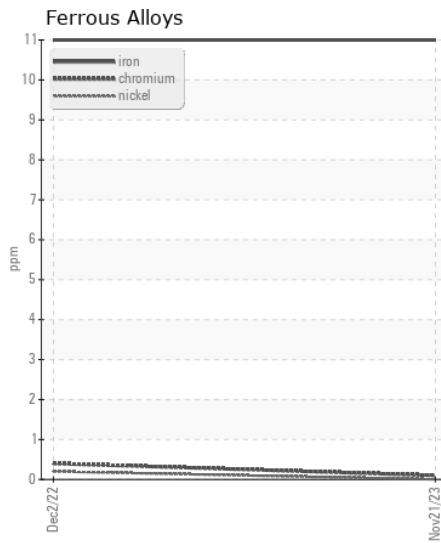
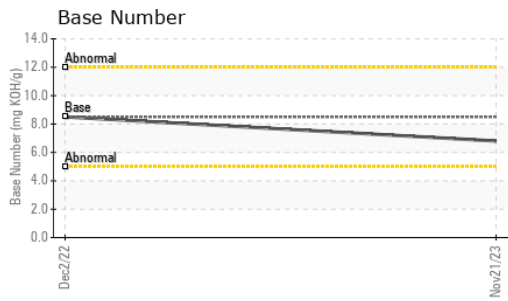
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	6	4	---
Potassium	ppm	ASTM D5185m	>20	3	1	---
Fuel		WC Method	>5	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.8	0.9	---
Nitration	Abs/cm	*ASTM D7624	>20	9.2	11.6	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.6	25.4	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	---

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>216	2	2	---
Boron	ppm	ASTM D5185m	250	3	28	---
Barium	ppm	ASTM D5185m	10	0	0	---
Molybdenum	ppm	ASTM D5185m	100	60	50	---
Manganese	ppm	ASTM D5185m		<1	<1	---
Magnesium	ppm	ASTM D5185m	450	993	625	---
Calcium	ppm	ASTM D5185m	3000	1145	1829	---
Phosphorus	ppm	ASTM D5185m	1150	855	830	---
Zinc	ppm	ASTM D5185m	1350	1218	1124	---
Sulfur	ppm	ASTM D5185m	4250	2639	3076	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.1	25.9	---
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	6.8	8.5	---
Visc @ 100°C	cSt	ASTM D445	14.4	13.8	14.1	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0069950 **Received** : 22 Nov 2023
Lab Number : 06014754 **Diagnosed** : 23 Nov 2023
Unique Number : 10753898 **Diagnostician** : Wes Davis
Test Package : FLEET

GFL Environmental - 902 - Chilton HC
 428 High St
 Chilton, WI
 US 53014
 Contact: Keith Mueller
 keith.mueller@gflenv.com
 T: (920)374-1404
 F:

To discuss this sample report, contact Customer Service at 1-800-237-1369.
 * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)