



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
(BD56681) {UNASSIGNED}
Machine Id
914047
Component
1 Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 40 (9 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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0106638	GFL0097666	---
Sample Date		Client Info		10 Jan 2024	30 Oct 2023	---
Machine Age	hrs	Client Info		1195	599	---
Oil Age	hrs	Client Info		636	599	---
Filter Age	hrs	Client Info		636	599	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>120	22	33	---
Chromium	ppm	ASTM D5185m	>20	<1	<1	---
Nickel	ppm	ASTM D5185m	>5	2	3	---
Titanium	ppm	ASTM D5185m	>2	0	<1	---
Silver	ppm	ASTM D5185m	>2	<1	1	---
Aluminum	ppm	ASTM D5185m	>20	<1	4	---
Lead	ppm	ASTM D5185m	>40	0	<1	---
Copper	ppm	ASTM D5185m	>330	30	133	---
Tin	ppm	ASTM D5185m	>15	1	3	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

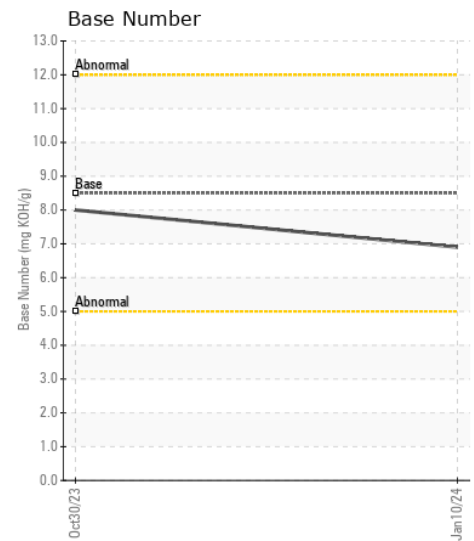
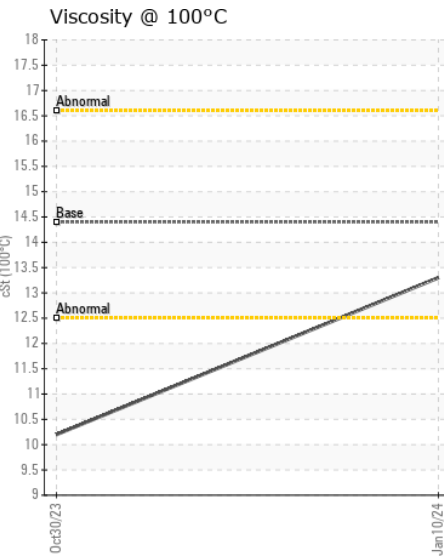
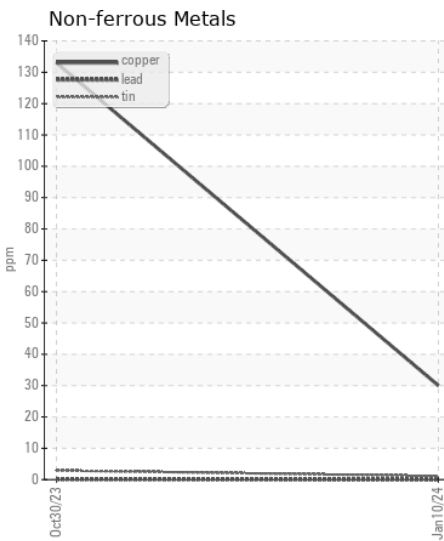
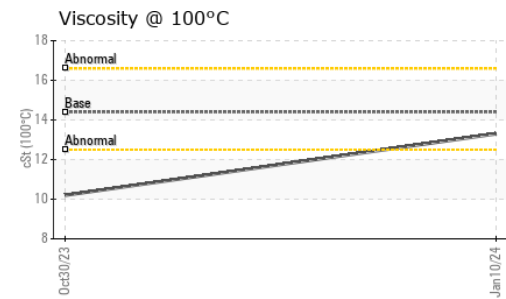
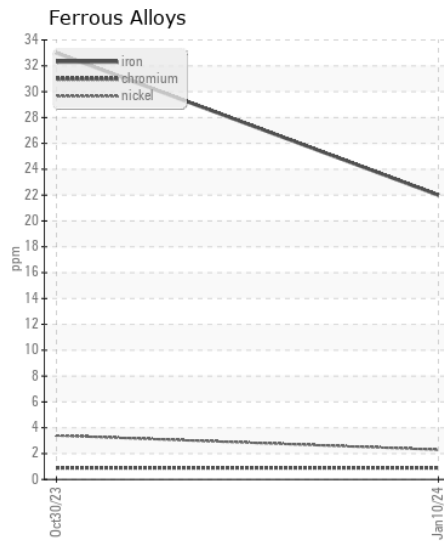
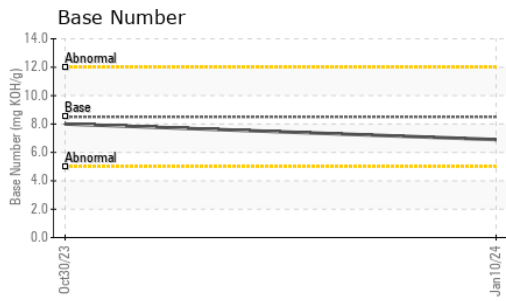
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	8	52	---
Potassium	ppm	ASTM D5185m	>20	<1	8	---
Fuel		WC Method	>3.0	<1.0	0.4	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>4	0.4	0.3	---
Nitration	Abs/cm	*ASTM D7624	>20	8.9	7.1	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.3	19.7	---
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	3	3	---
Boron	ppm	ASTM D5185m	250	8	202	---
Barium	ppm	ASTM D5185m	10	0	0	---
Molybdenum	ppm	ASTM D5185m	100	62	103	---
Manganese	ppm	ASTM D5185m		1	5	---
Magnesium	ppm	ASTM D5185m	450	978	670	---
Calcium	ppm	ASTM D5185m	3000	1105	1342	---
Phosphorus	ppm	ASTM D5185m	1150	1059	697	---
Zinc	ppm	ASTM D5185m	1350	1261	858	---
Sulfur	ppm	ASTM D5185m	4250	2850	2232	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.0	15.5	---
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	6.9	8.0	---
Visc @ 100°C	cSt	ASTM D445	14.4	13.3	10.2	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0106638 **Received** : 19 Jan 2024
Lab Number : 06065314 **Diagnosed** : 20 Jan 2024
Unique Number : 10836696 **Diagnostician** : Wes Davis
Test Package : FLEET

GFL Environmental - 405 - Arbor Hills
 7400 Napier Rd
 NORTHVILLE, MI
 US 48168
 Contact: Anthony Hopkins
 ahopkins@gflenv.com

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)

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F: