



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
FREIGHTLINER CLASSIC 12
Component
Diesel Engine
Fluid
MCMILLAN 14W40 (10 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LF508425	LF509564	---
Sample Date		Client Info		13 Apr 2024	26 Feb 2024	---
Machine Age	mls	Client Info		90000	80000	---
Oil Age	mls	Client Info		15000	15000	---
Filter Age	mls	Client Info		15000	15000	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	44	33	---
Chromium	ppm	ASTM D5185m	>20	2	2	---
Nickel	ppm	ASTM D5185m	>2	2	2	---
Titanium	ppm	ASTM D5185m	>2	<1	0	---
Silver	ppm	ASTM D5185m	>2	0	0	---
Aluminum	ppm	ASTM D5185m	>25	2	1	---
Lead	ppm	ASTM D5185m	>40	3	2	---
Copper	ppm	ASTM D5185m	>330	6	4	---
Tin	ppm	ASTM D5185m	>15	1	<1	---
Vanadium	ppm	ASTM D5185m		<1	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

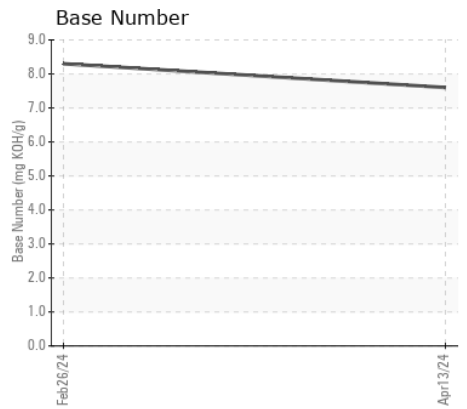
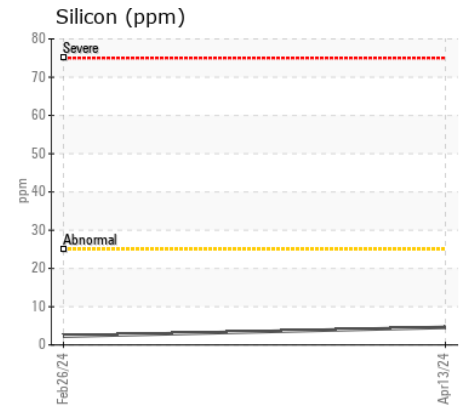
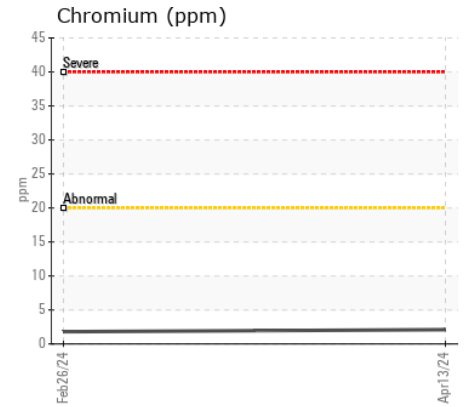
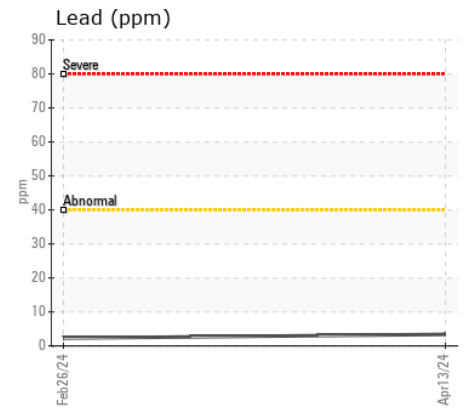
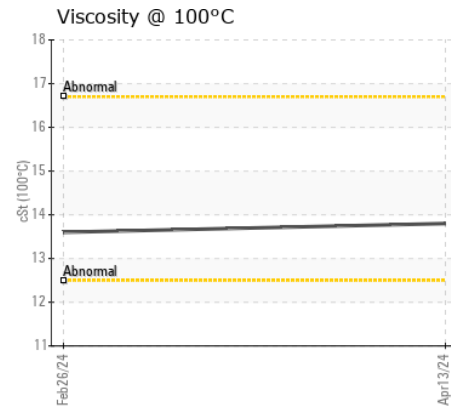
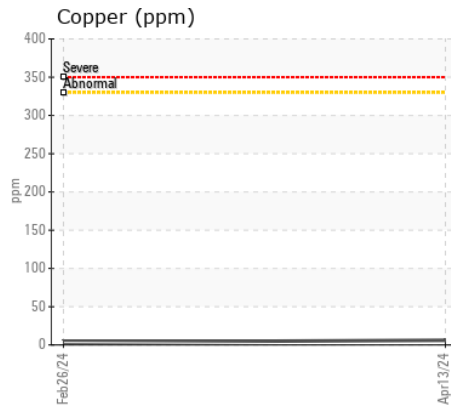
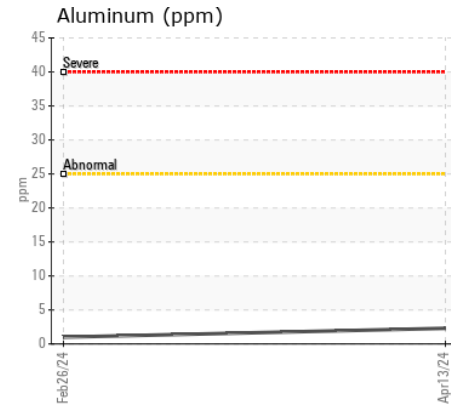
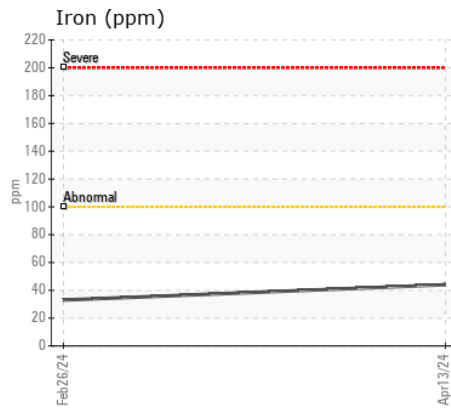
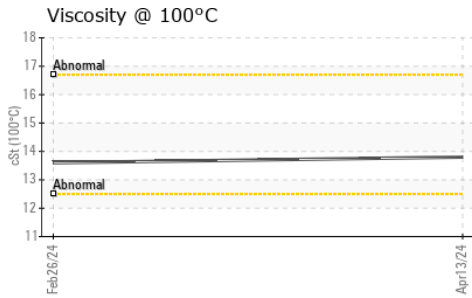
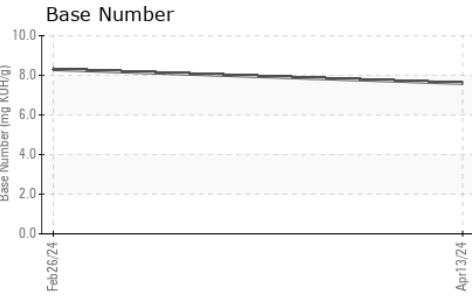
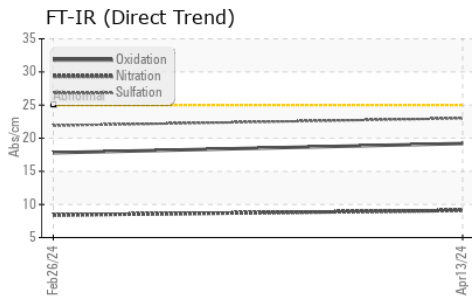
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	5	2	---
Potassium	ppm	ASTM D5185m	>20	4	<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	1.3	0.8	---
Nitration	Abs/cm	*ASTM D7624	>20	9.1	8.4	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.0	21.9	---
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		2	<1	---
Boron	ppm	ASTM D5185m		3	1	---
Barium	ppm	ASTM D5185m		<1	0	---
Molybdenum	ppm	ASTM D5185m		63	63	---
Manganese	ppm	ASTM D5185m		<1	<1	---
Magnesium	ppm	ASTM D5185m		988	1079	---
Calcium	ppm	ASTM D5185m		1099	1154	---
Phosphorus	ppm	ASTM D5185m		1029	1144	---
Zinc	ppm	ASTM D5185m		1274	1420	---
Sulfur	ppm	ASTM D5185m		3125	3388	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.2	17.8	---
Base Number (BN)	mg KOH/g	ASTM D2896		7.6	8.3	---
Visc @ 100°C	cSt	ASTM D445		13.8	13.6	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LF508425 **Received** : 22 Apr 2024
Lab Number : 06156647 **Tested** : 23 Apr 2024
Unique Number : 10992070 **Diagnosed** : 24 Apr 2024 - Sean Felton
Test Package : MOB 1 (Additional Tests: TBN)

BROWN'S CUSTOM CARPENTRY INC
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 HENRYVILLE, PA
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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)