



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
Store 2 - Beaver [American Elec]
Machine Id
CATERPILLAR 100KW GXG02554
Component
Diesel Engine
Fluid
SAE 5W30 (2 GAL)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: Customer has no service history.)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0048564	LEC0039498	---
Sample Date		Client Info		15 Apr 2024	24 Feb 2023	---
Machine Age	hrs	Client Info		196	194	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Not Changd	---
Filter Changed		Client Info		Changed	Not Changd	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	4	16	---
Chromium	ppm	ASTM D5185m	>20	0	1	---
Nickel	ppm	ASTM D5185m	>2	0	<1	---
Titanium	ppm	ASTM D5185m	>2	0	<1	---
Silver	ppm	ASTM D5185m	>2	0	0	---
Aluminum	ppm	ASTM D5185m	>25	3	2	---
Lead	ppm	ASTM D5185m	>40	1	1	---
Copper	ppm	ASTM D5185m	>330	2	8	---
Tin	ppm	ASTM D5185m	>15	<1	<1	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

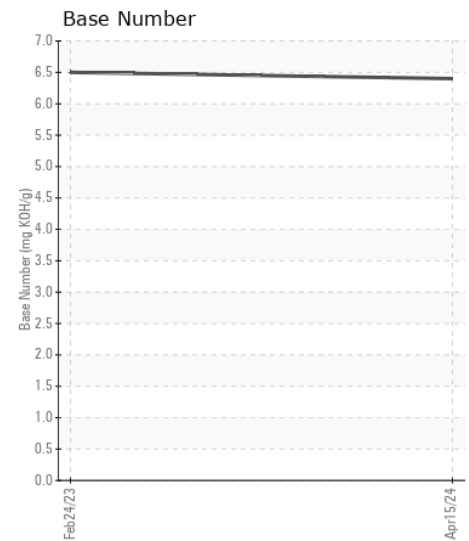
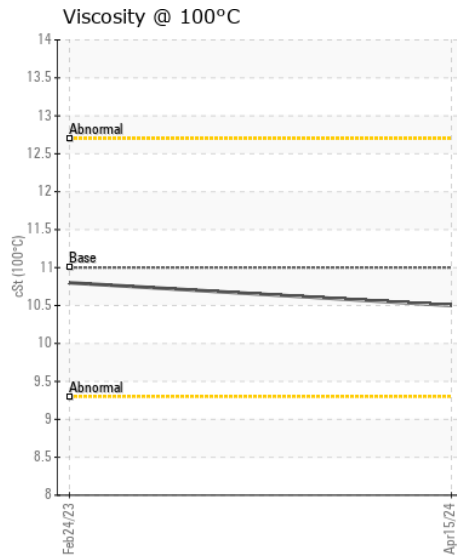
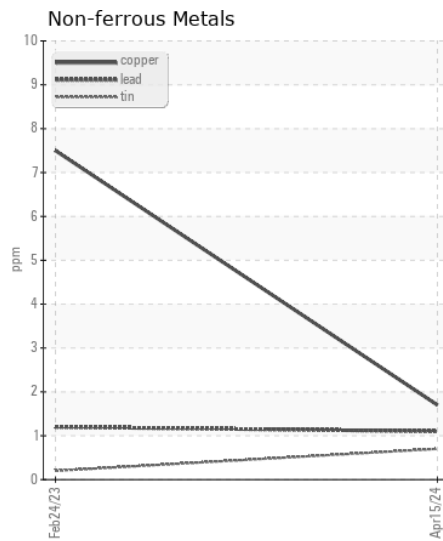
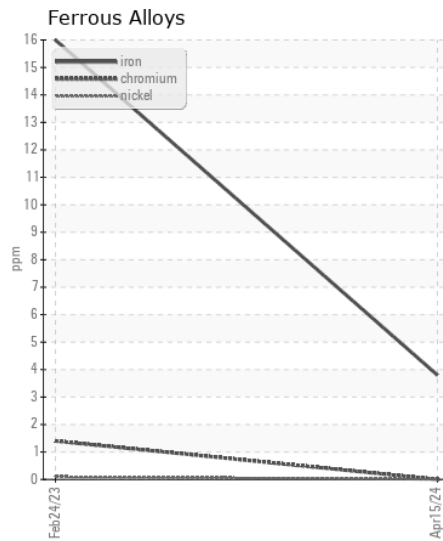
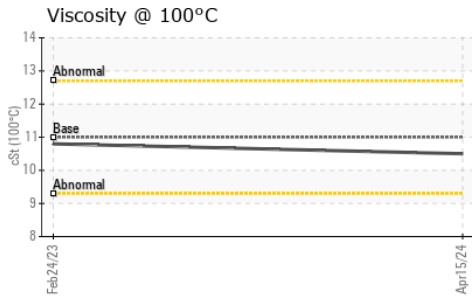
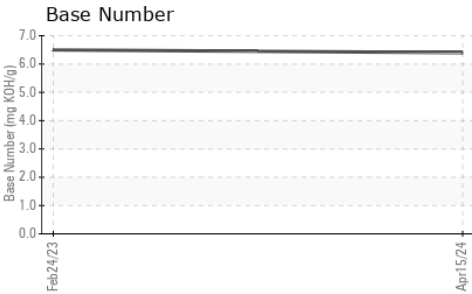
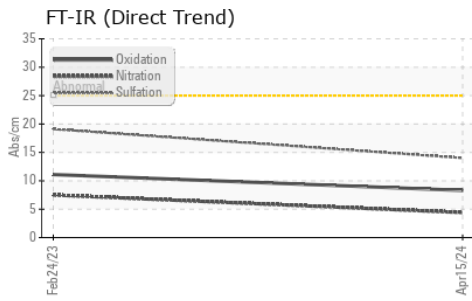
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>120	12	19	---
Potassium	ppm	ASTM D5185m	>20	<1	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	0.1	---
Nitration	Abs/cm	*ASTM D7624	>20	4.4	7.5	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	14.0	19.1	---
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		<1	8	---
Boron	ppm	ASTM D5185m		124	119	---
Barium	ppm	ASTM D5185m		1	0	---
Molybdenum	ppm	ASTM D5185m		264	75	---
Manganese	ppm	ASTM D5185m		<1	<1	---
Magnesium	ppm	ASTM D5185m		564	767	---
Calcium	ppm	ASTM D5185m		1419	1215	---
Phosphorus	ppm	ASTM D5185m		720	769	---
Zinc	ppm	ASTM D5185m		864	977	---
Sulfur	ppm	ASTM D5185m		2658	3203	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	8.3	11.1	---
Base Number (BN)	mg KOH/g	ASTM D2896		6.4	6.5	---
Visc @ 100°C	cSt	ASTM D445	11.0	10.5	10.8	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0048564 **Received** : 19 Apr 2024
Lab Number : **06154137** **Tested** : 23 Apr 2024
Unique Number : 10989560 **Diagnosed** : 23 Apr 2024 - Don Baldrige
Test Package : CONST (Additional Tests: TBN)

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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