



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
BELL B50E B93A650EK03408277
Component
Diesel Engine
Fluid
SYNERGY 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		BE0020883	BE0020882	---
Sample Date		Client Info		05 Feb 2024	20 Sep 2023	---
Machine Age	hrs	Client Info		939	422	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>79	15	16	---
Iron	ppm	ASTM D5185m	>100	20	54	---
Chromium	ppm	ASTM D5185m	>20	<1	1	---
Nickel	ppm	ASTM D5185m	>4	1	1	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m	>3	<1	<1	---
Aluminum	ppm	ASTM D5185m	>20	5	0	---
Lead	ppm	ASTM D5185m	>40	<1	<1	---
Copper	ppm	ASTM D5185m	>330	380	260	---
Tin	ppm	ASTM D5185m	>15	4	3	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

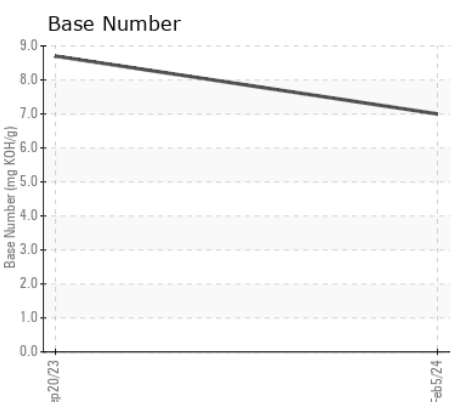
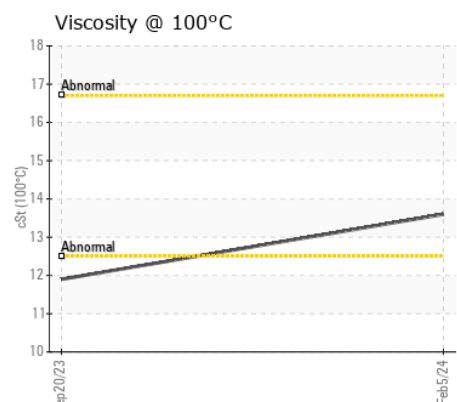
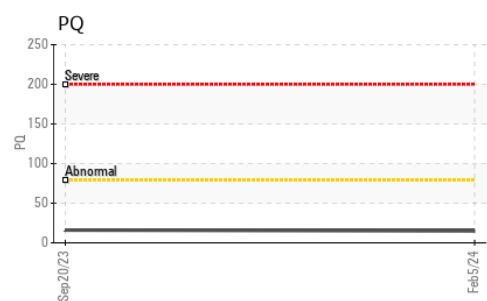
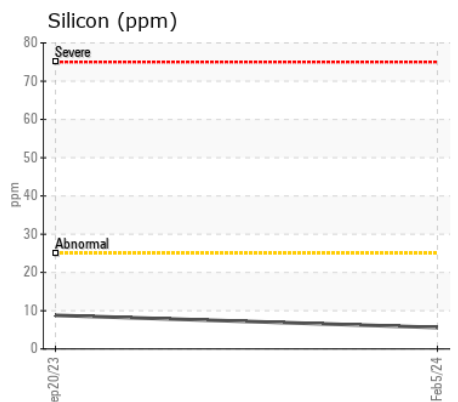
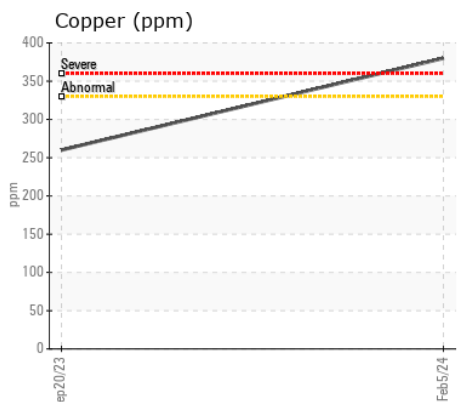
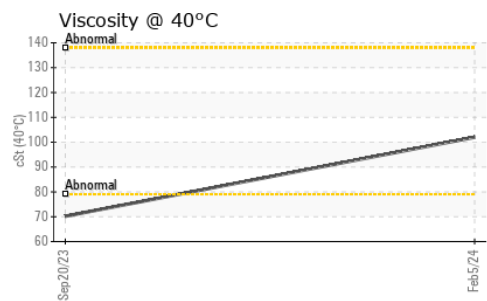
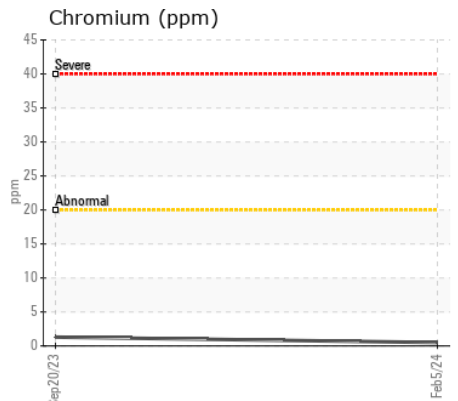
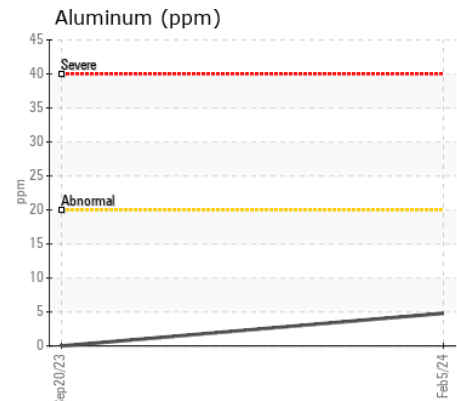
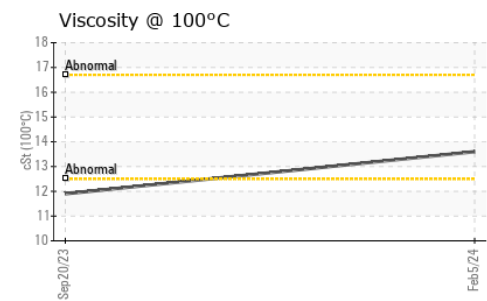
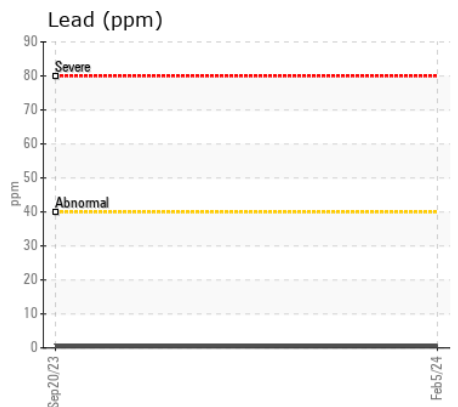
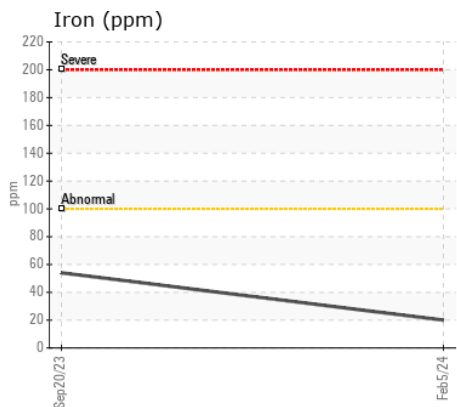
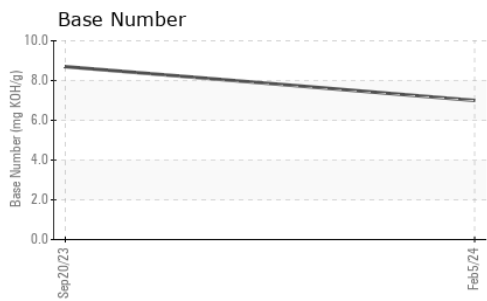
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	6	9	---
Potassium	ppm	ASTM D5185m	>20	5	8	---
Fuel		WC Method	>5	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.2	0.2	---
Nitration	Abs/cm	*ASTM D7624	>20	9.3	9.7	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.3	21.4	---
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		0	0	---
Boron	ppm	ASTM D5185m		321	16	---
Barium	ppm	ASTM D5185m		14	3	---
Molybdenum	ppm	ASTM D5185m		118	1	---
Manganese	ppm	ASTM D5185m		1	4	---
Magnesium	ppm	ASTM D5185m		466	62	---
Calcium	ppm	ASTM D5185m		1601	2120	---
Phosphorus	ppm	ASTM D5185m		965	688	---
Zinc	ppm	ASTM D5185m		1150	776	---
Sulfur	ppm	ASTM D5185m		2974	2211	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.1	18.6	---
Base Number (BN)	mg KOH/g	ASTM D2896		7.0	8.7	---
Visc @ 40°C	cSt	ASTM D445		102	70.2	---
Visc @ 100°C	cSt	ASTM D445		13.6	11.9	---
Viscosity Index (VI)	Scale	ASTM D2270		133	166	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : BE0020883
Lab Number : 06086644
Unique Number : 10874089
Test Package : MOBCE
Received : 12 Feb 2024
Tested : 14 Feb 2024
Diagnosed : 14 Feb 2024 - Jonathan Hester

Oak Hills
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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)