



OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Machine Id
BELL B30E B93A631ET03010079
 Component
Front Right Final Drive
 Fluid
GEAR OIL SAE 80W90 (--- GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. Oil and filter change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		BE0009032	---	---
Sample Date		Client Info		09 Apr 2024	---	---
Machine Age	hrs	Client Info		1992	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				SEVERE	---	---

WEAR

Bearing and/or gear wear is indicated.

PQ		ASTM D8184	>3000	1910	---	---
Iron	ppm	ASTM D5185m	>HR:1=	▲ 3256	---	---
Chromium	ppm	ASTM D5185m	>10	▲ 29	---	---
Nickel	ppm	ASTM D5185m	>10	▲ 18	---	---
Titanium	ppm	ASTM D5185m		5	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>25	● 87	---	---
Lead	ppm	ASTM D5185m	>25	2	---	---
Copper	ppm	ASTM D5185m	>50	▲ 793	---	---
Tin	ppm	ASTM D5185m	>10	▲ 23	---	---
Vanadium	ppm	ASTM D5185m		<1	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

CONTAMINATION

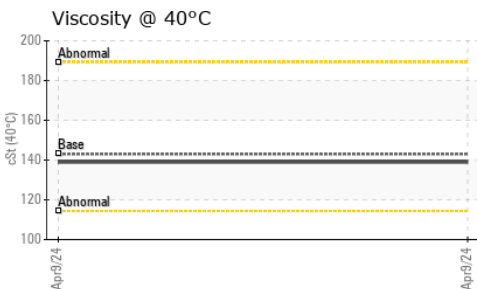
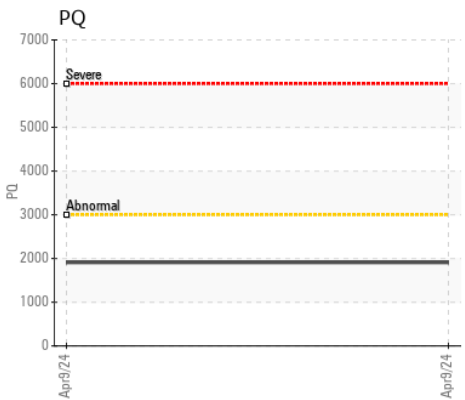
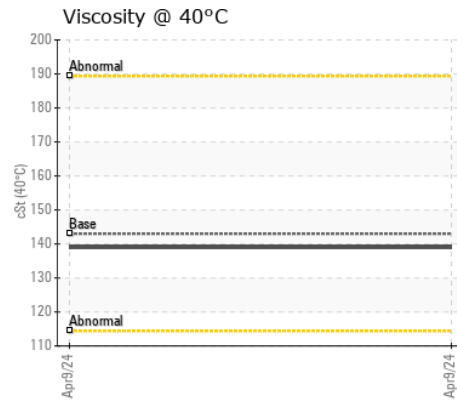
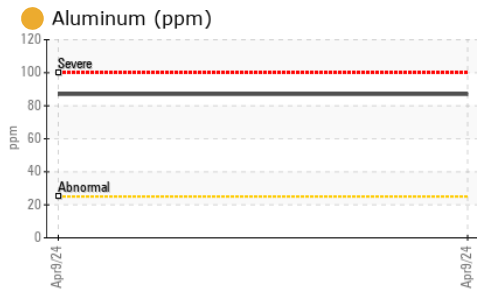
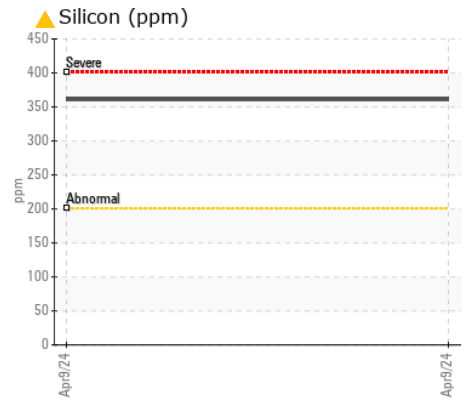
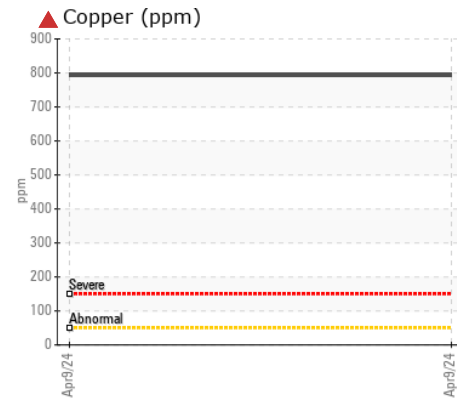
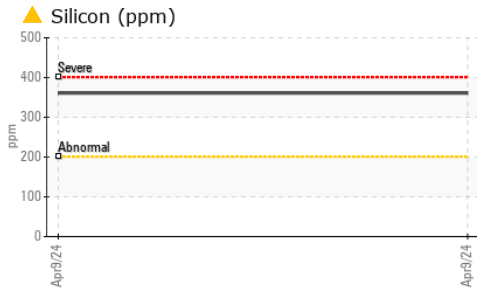
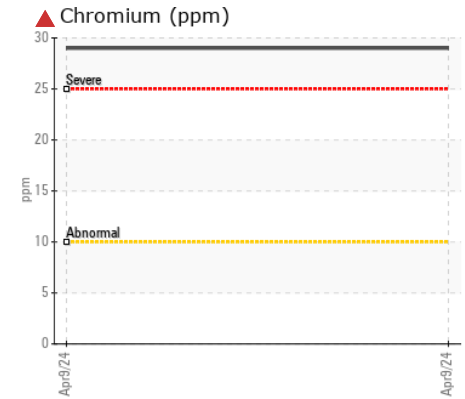
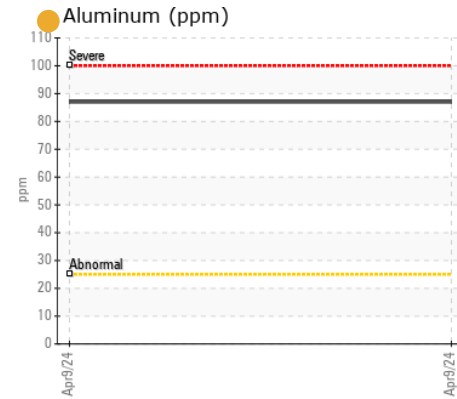
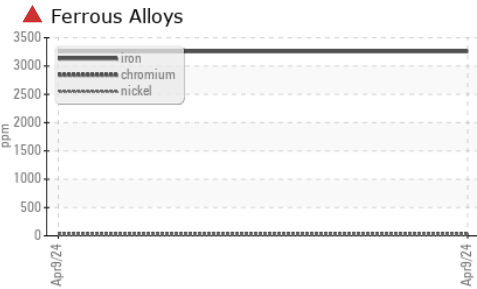
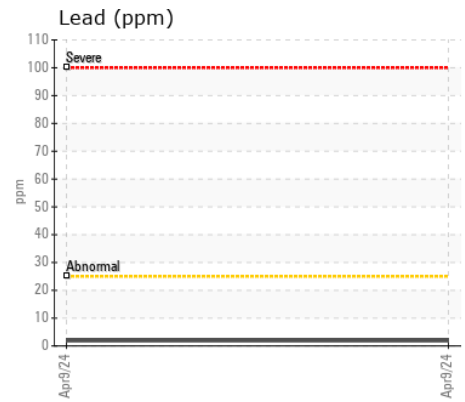
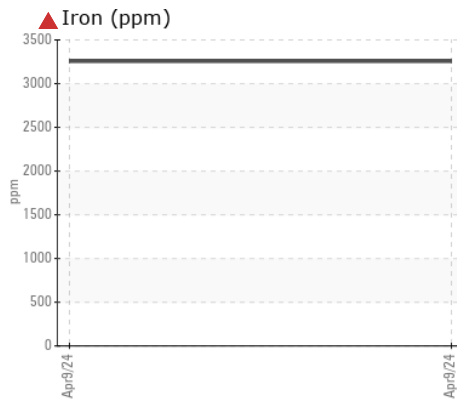
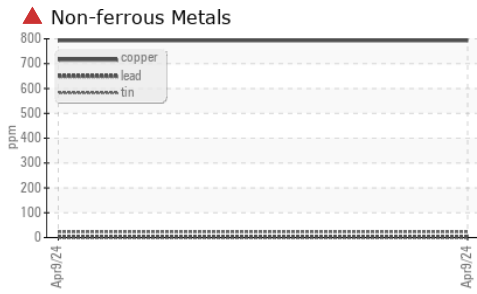
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>201	▲ 361	---	---
Potassium	ppm	ASTM D5185m	>20	7	---	---
Water		WC Method	>1.01	NEG	---	---
Silt	scalar	*Visual	NONE	MODER	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>1.01	NEG	---	---

FLUID CONDITION

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Sodium	ppm	ASTM D5185m	>170	4	---	---
Boron	ppm	ASTM D5185m	400	6	---	---
Barium	ppm	ASTM D5185m	200	<1	---	---
Molybdenum	ppm	ASTM D5185m	12	6	---	---
Manganese	ppm	ASTM D5185m		66	---	---
Magnesium	ppm	ASTM D5185m	12	23	---	---
Calcium	ppm	ASTM D5185m	150	99	---	---
Phosphorus	ppm	ASTM D5185m	1650	666	---	---
Zinc	ppm	ASTM D5185m	125	344	---	---
Sulfur	ppm	ASTM D5185m	22500	25254	---	---
Visc @ 40°C	cSt	ASTM D445	143	139	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : BE0009032
Lab Number : 06149000
Unique Number : 10979078
Test Package : MOBCE

National Equipment Dealers LLC NE
 215 Woodside Drive
 Lexington, NC
 US 27292
 Contact: Steven Gawthrop
 sgawthrop@nedealers.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)