



WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area

[W8864]

Machine Id

Bobcat E45 (S/N B2vy13208)

Component

Hydraulic System

Fluid

{not provided} (--- GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample. (Customer Sample Comment: W8864)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0196938	---	---
Sample Date		Client Info		24 May 2024	---	---
Machine Age	hrs	Client Info		2190	---	---
Oil Age	hrs	Client Info		2190	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				ABNORMAL	---	---

WEAR

Aluminum and iron ppm levels are abnormal.

Test	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		21	---	---
Iron	ppm	ASTM D5185m	>20	▲ 34	---	---
Chromium	ppm	ASTM D5185m	>10	3	---	---
Nickel	ppm	ASTM D5185m	>10	0	---	---
Titanium	ppm	ASTM D5185m		<1	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>10	▲ 26	---	---
Lead	ppm	ASTM D5185m	>10	4	---	---
Copper	ppm	ASTM D5185m	>75	30	---	---
Tin	ppm	ASTM D5185m	>10	0	---	---
Vanadium	ppm	ASTM D5185m		<1	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

CONTAMINATION

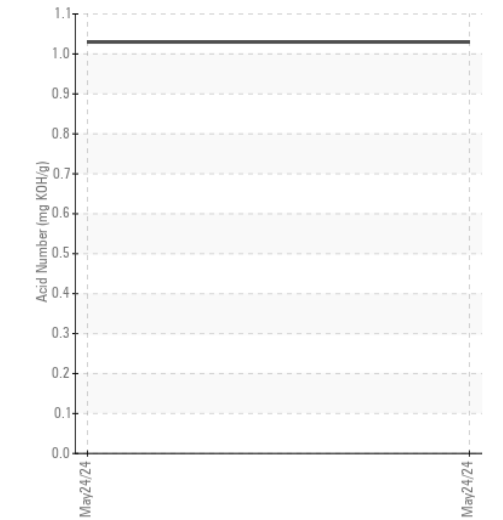
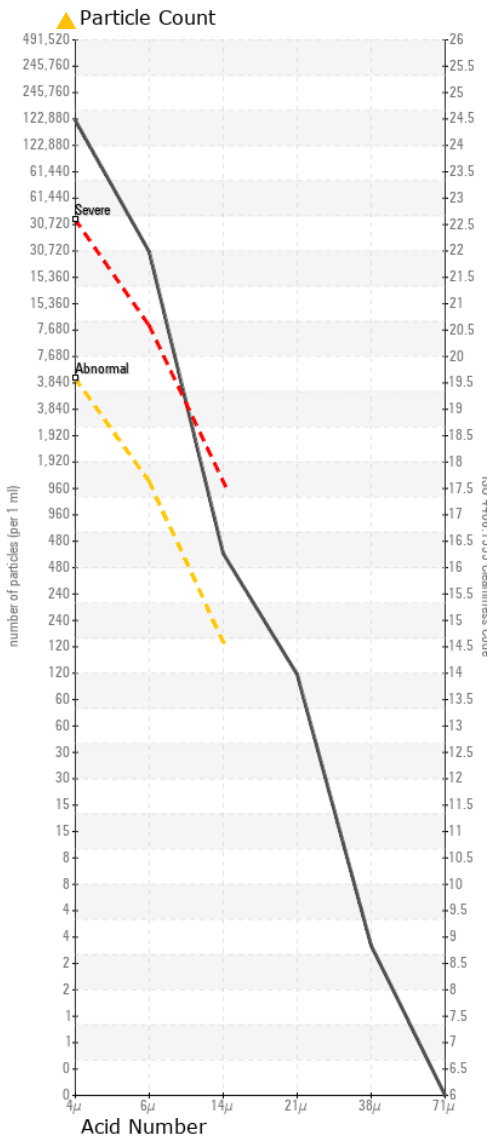
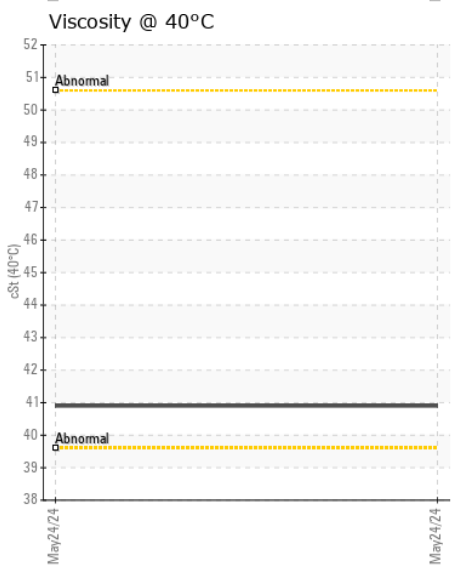
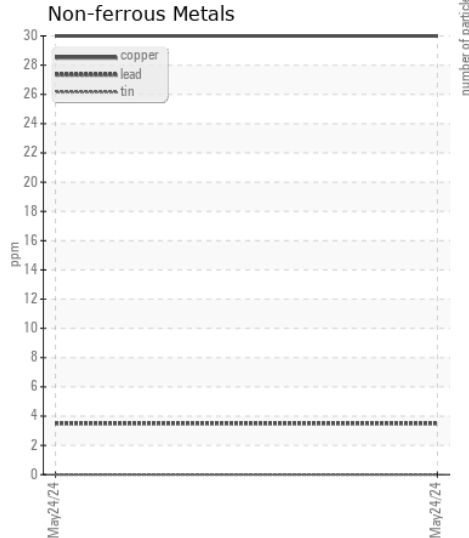
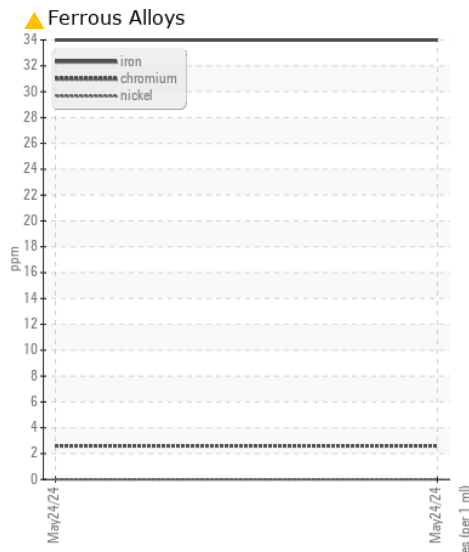
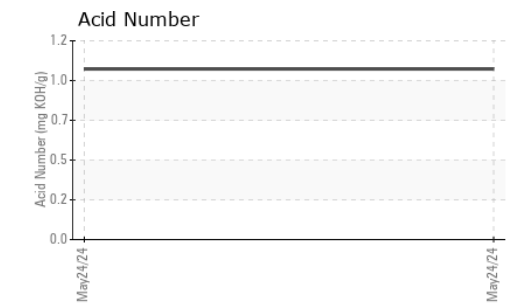
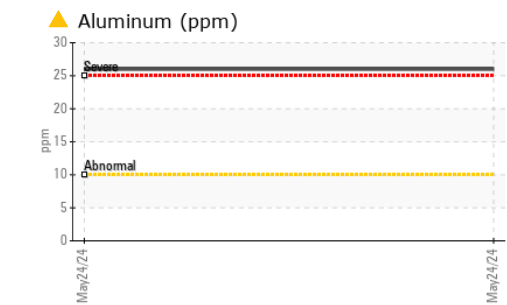
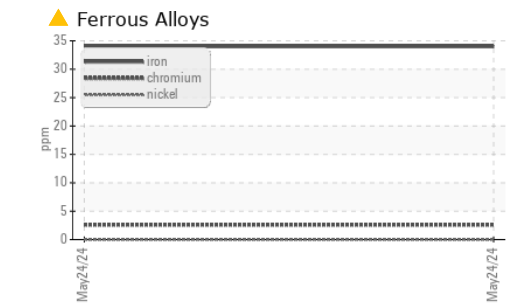
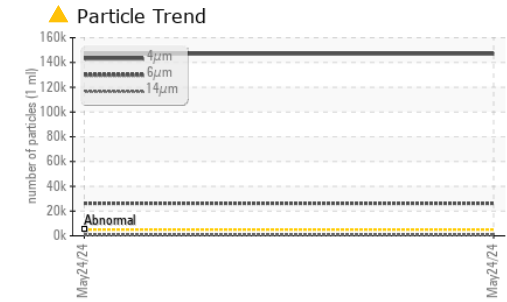
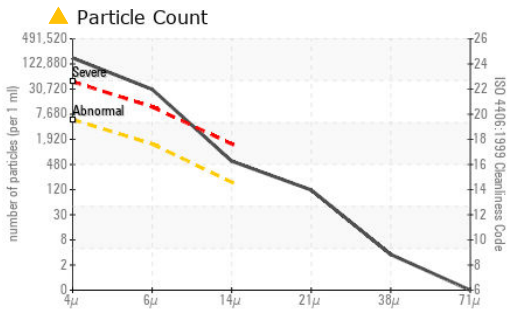
There is a high amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>20	16	---	---
Potassium	ppm	ASTM D5185m	>20	2	---	---
Water		WC Method	>0.1	NEG	---	---
Particles >4µm		ASTM D7647	>5000	▲ 146977	---	---
Particles >6µm		ASTM D7647	>1300	▲ 26242	---	---
Particles >14µm		ASTM D7647	>160	▲ 507	---	---
Particles >21µm		ASTM D7647	>40	▲ 104	---	---
Particles >38µm		ASTM D7647	>10	3	---	---
Particles >71µm		ASTM D7647	>3	0	---	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 24/22/16	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
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	>0.1	NEG	---	---

FLUID CONDITION

The AN level is acceptable for this fluid.

Sodium	ppm	ASTM D5185m		6	---	---
Boron	ppm	ASTM D5185m		0	---	---
Barium	ppm	ASTM D5185m		0	---	---
Molybdenum	ppm	ASTM D5185m		0	---	---
Manganese	ppm	ASTM D5185m		<1	---	---
Magnesium	ppm	ASTM D5185m		16	---	---
Calcium	ppm	ASTM D5185m		648	---	---
Phosphorus	ppm	ASTM D5185m		921	---	---
Zinc	ppm	ASTM D5185m		1209	---	---
Sulfur	ppm	ASTM D5185m		5106	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045		1.03	---	---
Visc @ 40°C	cSt	ASTM D445		40.9	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0196938 **Received** : 29 May 2024
Lab Number : 06193865 **Tested** : 30 May 2024
Unique Number : 11055988 **Diagnosed** : 31 May 2024 - Angela Borella
Test Package : MOBCE (Additional Tests: PQ)

JRE - HOPE MILLS/FAYETTEVILLE
 5039 HWY 301 SOUTH
 HOPE MILLS, NC
 US 28348
 Contact: Justin Jackson
 Justin.Jackson@jamesriverequipment.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)

T:
F: