



PERFORMANCE  
UNDER  
PRESSURE

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	SEVERE

Machine Id  
**BILLET FURNACE**  
Component  
**Hydraulic System**  
Fluid  
**BF HFDU 68 (--- GAL)**

**RECOMMENDATION**

We advise that you check for a possible overheat condition. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition. Please note that this is a corrected copy.

**WEAR**

All component wear rates are normal.

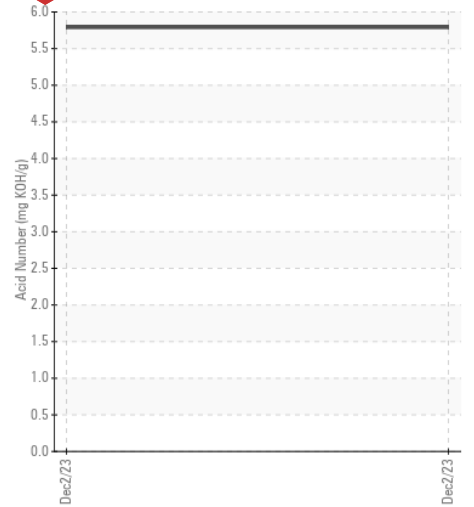
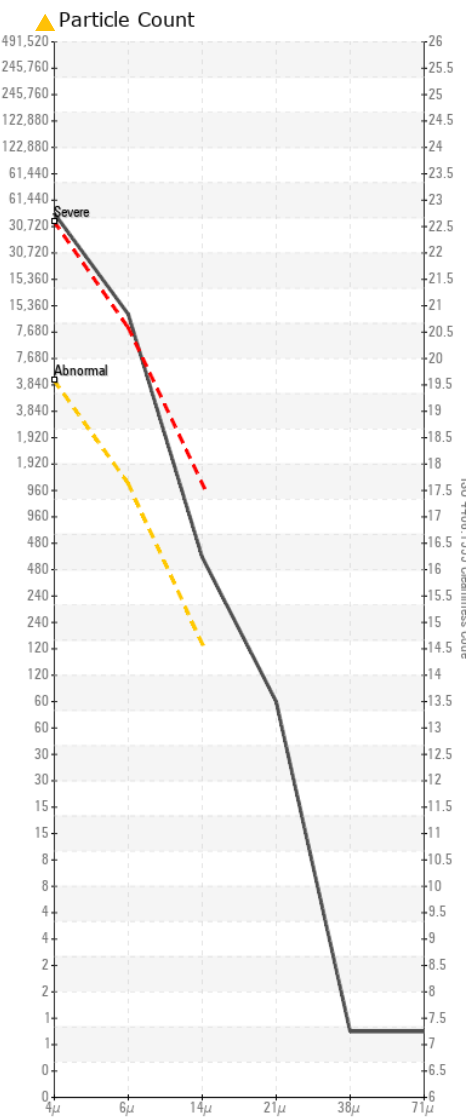
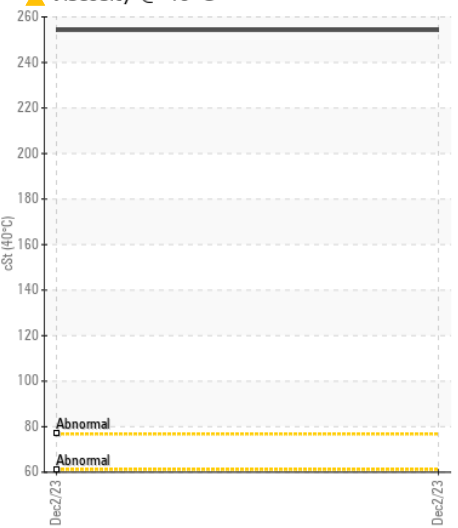
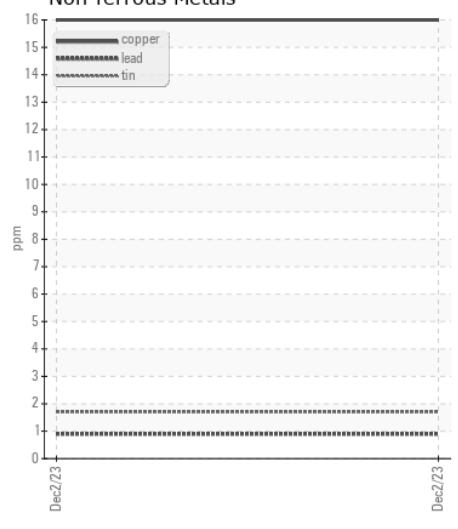
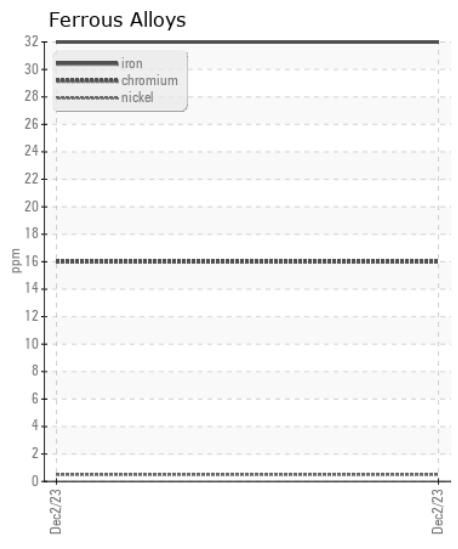
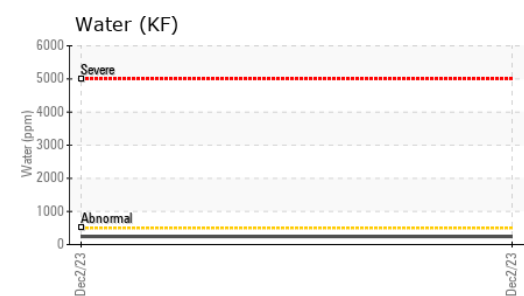
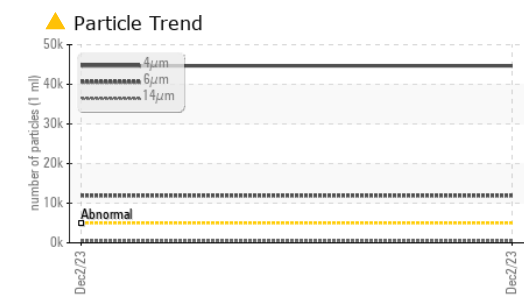
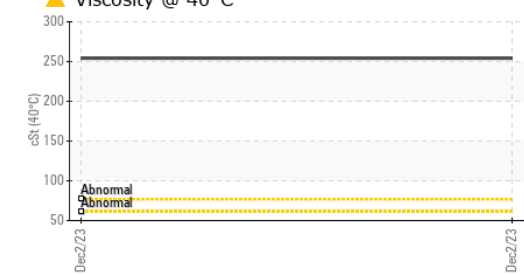
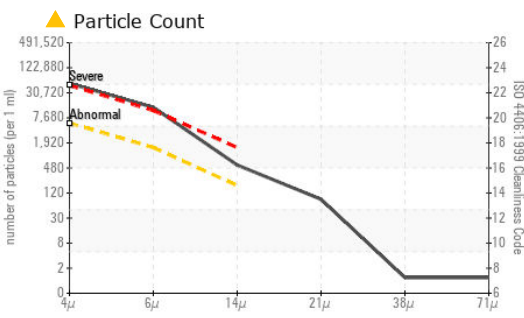
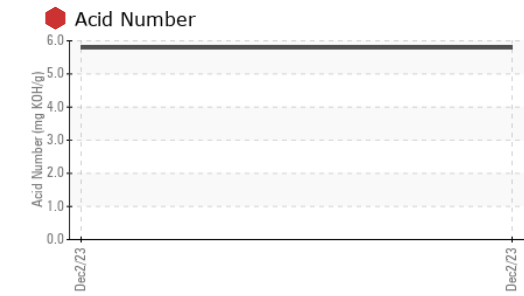
**CONTAMINATION**

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

**FLUID CONDITION**

The AN level is above the recommended limit. The oil viscosity is higher than normal. The oil is no longer serviceable.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RP0032250	---	---
Sample Date		Client Info		02 Dec 2023	---	---
Machine Age	hrs	Client Info		0	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		N/A	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				SEVERE	---	---
Iron	ppm	ASTM D5185m	>20	32	---	---
Chromium	ppm	ASTM D5185m	>20	16	---	---
Nickel	ppm	ASTM D5185m	>20	<1	---	---
Titanium	ppm	ASTM D5185m		1	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>20	1	---	---
Lead	ppm	ASTM D5185m	>20	<1	---	---
Copper	ppm	ASTM D5185m	>20	16	---	---
Tin	ppm	ASTM D5185m	>20	2	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Silicon	ppm	ASTM D5185m	>15	2	---	---
Potassium	ppm	ASTM D5185m	>20	<1	---	---
Water	%	ASTM D6304	>0.05	0.024	---	---
ppm Water	ppm	ASTM D6304	>500	243	---	---
Particles >4µm		ASTM D7647	>5000	▲ 44662	---	---
Particles >6µm		ASTM D7647	>1300	▲ 11926	---	---
Particles >14µm		ASTM D7647	>160	▲ 496	---	---
Particles >21µm		ASTM D7647	>40	▲ 75	---	---
Particles >38µm		ASTM D7647	>10	1	---	---
Particles >71µm		ASTM D7647	>3	1	---	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 23/21/16	---	---
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	>0.05	NEG	---	---
Sodium	ppm	ASTM D5185m		8	---	---
Boron	ppm	ASTM D5185m		1	---	---
Barium	ppm	ASTM D5185m		2	---	---
Molybdenum	ppm	ASTM D5185m		<1	---	---
Manganese	ppm	ASTM D5185m		<1	---	---
Magnesium	ppm	ASTM D5185m		<1	---	---
Calcium	ppm	ASTM D5185m		4	---	---
Phosphorus	ppm	ASTM D5185m		74	---	---
Zinc	ppm	ASTM D5185m		3	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045		◆ 5.79	---	---
Visc @ 40°C	cSt	ASTM D445		▲ 254.2	---	---



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RP0032250 **Received** : 18 Dec 2023  
**Lab Number** : 06037908 **Diagnosed** : 15 Jan 2024  
**Unique Number** : 10793137 **Diagnostician** : Doug Bogart  
**Test Package** : IND 2

**CERRO FLOW PRODUCTS LLC**  
 101 SOUTH DOUGLAS  
 SHELBYNA, MO  
 US 63468  
 Contact: Service Manager

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: