



WEAR	<b>NORMAL</b>
CONTAMINATION	<b>SEVERE</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**BERGMAN 1034**  
Component  
**Hydraulic System**  
Fluid  
**AW HYDRAULIC OIL ISO 46 (--- GAL)**

**RECOMMENDATION**

We advise that you check for the source of water entry. We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample.

**WEAR**

All component wear rates are normal.

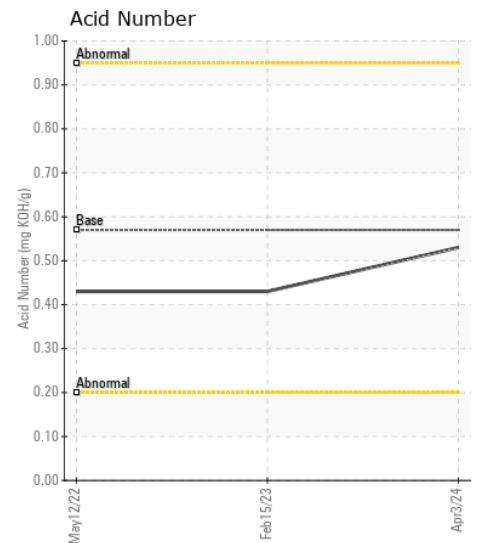
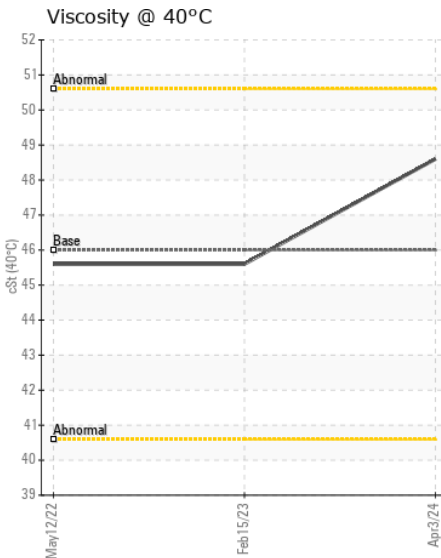
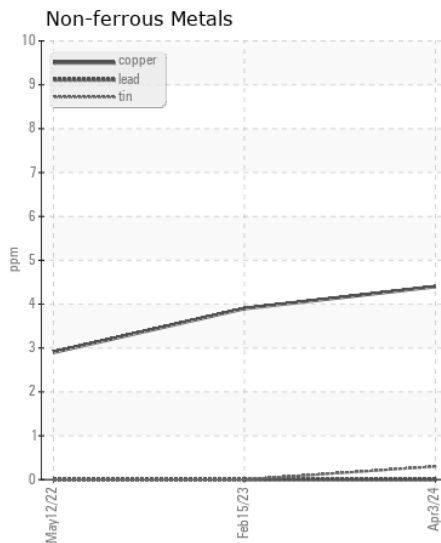
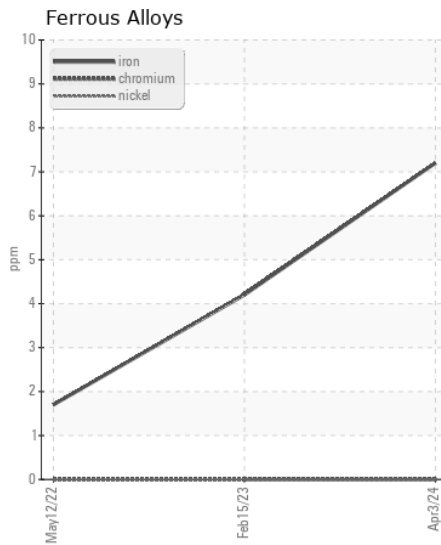
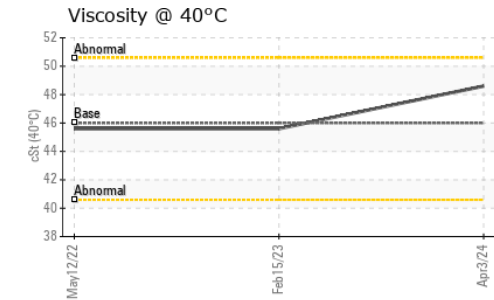
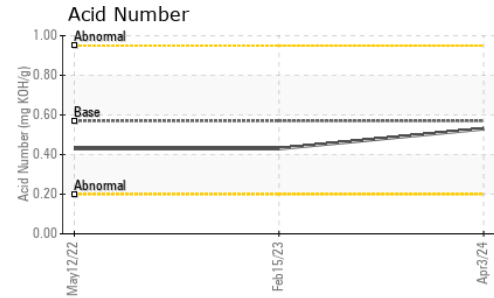
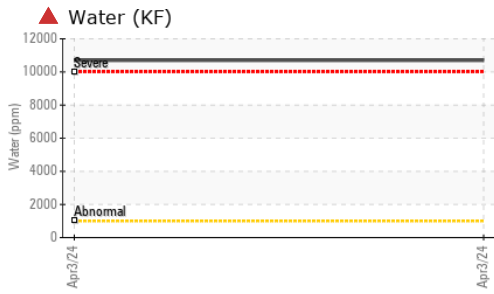
**CONTAMINATION**

Appearance is milky. There is a moderate amount of visible silt present in the sample. There is a high concentration of water present in the oil.

**FLUID CONDITION**

The AN level is acceptable for this fluid.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>CL0005277</b>	CL0004027	CL0003194
Sample Date		Client Info		<b>03 Apr 2024</b>	15 Feb 2023	12 May 2022
Machine Age	hrs	Client Info		<b>1710</b>	1165	685
Oil Age	hrs	Client Info		<b>1710</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>Not Changd</b>	Changed	Not Changd
Sample Status				<b>SEVERE</b>	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>20	<b>7</b>	4	2
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>10	<b>2</b>	2	<1
Lead	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>75	<b>4</b>	4	3
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Silicon	ppm	ASTM D5185m	>20	<b>3</b>	2	<1
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	0	0
Water	%	ASTM D6304	>0.1	<b>▲ 1.07</b>	---	---
ppm Water	ppm	ASTM D6304	>1000	<b>▲ 10700</b>	---	---
Particles >4µm		ASTM D7647	>5000	<b>---</b>	---	<b>▲ 11937</b>
Particles >6µm		ASTM D7647	>1300	<b>---</b>	---	<b>441</b>
Particles >14µm		ASTM D7647	>160	<b>---</b>	---	<b>21</b>
Particles >21µm		ASTM D7647	>40	<b>---</b>	---	<b>6</b>
Particles >38µm		ASTM D7647	>10	<b>---</b>	---	<b>0</b>
Particles >71µm		ASTM D7647	>3	<b>---</b>	---	<b>0</b>
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>---</b>	---	<b>▲ 21/16/12</b>
Silt	scalar	*Visual	NONE	<b>▲ MODER</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>LIGHT</b>	<b>▲ MODER</b>	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>● MILKY</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	<b>▲ 0.2%</b>	NEG	NEG
Sodium	ppm	ASTM D5185m		<b>0</b>	<1	<1
Boron	ppm	ASTM D5185m	5	<b>&lt;1</b>	0	1
Barium	ppm	ASTM D5185m	5	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	5	<b>2</b>	0	0
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m	25	<b>2</b>	0	0
Calcium	ppm	ASTM D5185m	200	<b>204</b>	41	50
Phosphorus	ppm	ASTM D5185m	300	<b>388</b>	315	332
Zinc	ppm	ASTM D5185m	370	<b>476</b>	427	426
Sulfur	ppm	ASTM D5185m	2500	<b>3785</b>	4198	3187
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	<b>0.53</b>	0.43	0.43
Visc @ 40°C	cSt	ASTM D445	46	<b>48.6</b>	45.6	45.6



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : CL0005277  
**Lab Number** : 06145261  
**Unique Number** : 10970069  
**Test Package** : CONST ( Additional Tests: KF )

**Received** : 10 Apr 2024  
**Tested** : 13 Apr 2024  
**Diagnosed** : 13 Apr 2024 - Don Baldrige

**PURCELL CONSTRUCTION**  
 3100 HIGH RIDGE RD  
 CHARLOTTE, NC  
 US 28270  
 Contact: BEN MILKE  
 ben@purcellconst.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: