



WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
BERGMAN 1034
Component
Front Differential
Fluid
TDH FLUID SAE 75W80 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		CL06145466	CL0004026	CL0003193
Sample Date		Client Info		03 Apr 2024	15 Feb 2023	12 May 2022
Machine Age	hrs	Client Info		1710	1165	685
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	NORMAL

WEAR

Bearing and/or bushing wear is indicated. Gear wear is indicated.

Iron	ppm	ASTM D5185m	>500	▲ 595	307	358
Chromium	ppm	ASTM D5185m	>10	4	2	2
Nickel	ppm	ASTM D5185m	>10	7	4	1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	1	2
Lead	ppm	ASTM D5185m	>25	0	0	<1
Copper	ppm	ASTM D5185m	>100	▲ 190	▲ 117	68
Tin	ppm	ASTM D5185m	>10	6	4	2
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	MODER	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

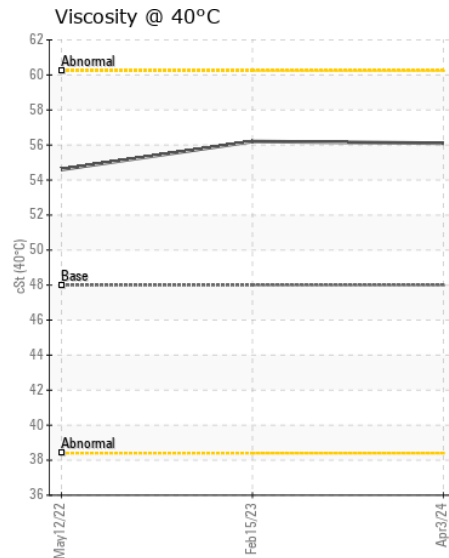
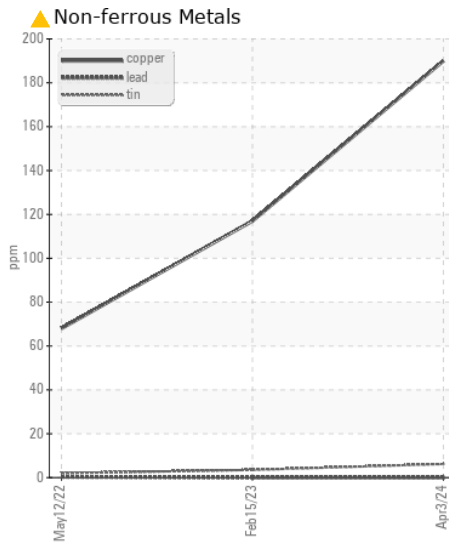
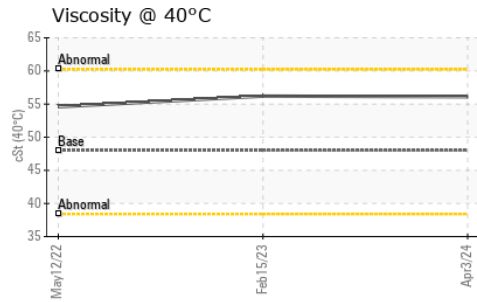
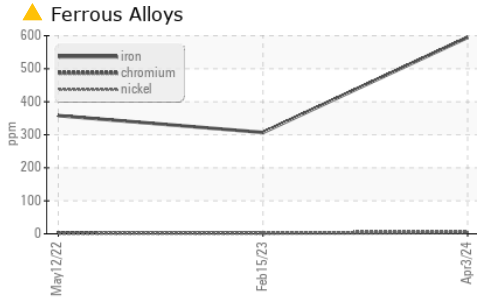
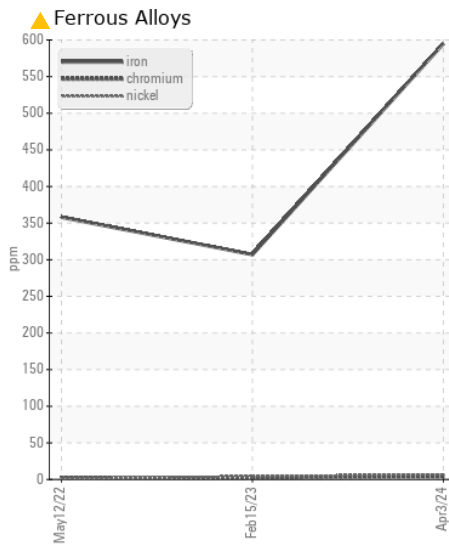
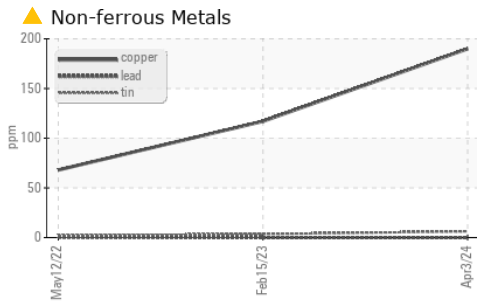
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	24	16	18
Potassium	ppm	ASTM D5185m	>20	3	2	2
Water		WC Method	>.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	MODER
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.2	NEG	NEG	NEG

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		18	16	9
Boron	ppm	ASTM D5185m	10	122	120	122
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	10	8	5	8
Manganese	ppm	ASTM D5185m		65	45	33
Magnesium	ppm	ASTM D5185m	100	11	9	10
Calcium	ppm	ASTM D5185m	3500	3360	3276	3342
Phosphorus	ppm	ASTM D5185m	1150	1295	1164	1190
Zinc	ppm	ASTM D5185m	1150	1406	1384	1423
Sulfur	ppm	ASTM D5185m	5000	3900	3357	3072
Visc @ 40°C	cSt	ASTM D445	48	56.1	56.2	54.6



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : CL06145466

Lab Number : 06145466

Unique Number : 10970274

Test Package : CONST

Received : 10 Apr 2024

Tested : 11 Apr 2024

Diagnosed : 14 Apr 2024 - Don Baldrige

PURCELL CONSTRUCTION

3100 HIGH RIDGE RD

CHARLOTTE, NC

US 28270

Contact: BEN MILKE

ben@purcellconst.com

T:

F:

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)