CHALMERS Lubrication Service
(704) 660-LUBE(5823)

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

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

RECOMMENDATION

No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

WEAR

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

CONTAMINATION

There is no indication of any contamination in the oil.

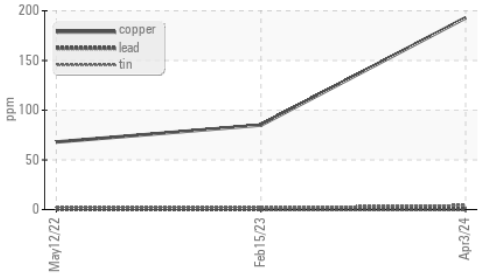
FLUID CONDITION

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

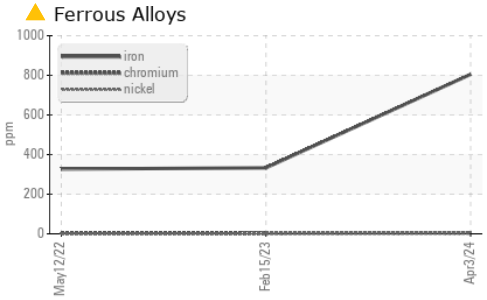
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		CL0005278	CL0004028	CL0003195
Sample Date		Client Info		03 Apr 2024	15 Feb 2023	12 May 2022
Machine Age	hrs	Client Info		1710	1165	685
Oil Age	hrs	Client Info		1710	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>500	▲ 805	333	327
Chromium	ppm	ASTM D5185m	>10	4	2	2
Nickel	ppm	ASTM D5185m	>10	7	3	1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>25	2	1	2
Lead	ppm	ASTM D5185m	>25	<1	<1	<1
Copper	ppm	ASTM D5185m	>100	▲ 193	85	68
Tin	ppm	ASTM D5185m	>10	4	2	2
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	22	14	17
Potassium	ppm	ASTM D5185m	>20	2	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
Sodium	ppm	ASTM D5185m		8	7	9
Boron	ppm	ASTM D5185m	10	115	111	122
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	10	11	5	8
Manganese	ppm	ASTM D5185m		39	21	32
Magnesium	ppm	ASTM D5185m	100	10	8	12
Calcium	ppm	ASTM D5185m	3500	3237	3116	3342
Phosphorus	ppm	ASTM D5185m	1150	1299	1108	1183
Zinc	ppm	ASTM D5185m	1150	1365	1320	1410
Sulfur	ppm	ASTM D5185m	5000	3948	3146	2905
Visc @ 40°C	cSt	ASTM D445	48	53.7	53.9	54.5

Report Id: PURCHA [WUSCAR] 06145468 (Generated: 04/14/2024 11:33:09) Rev: 1
Submitted By: JEFF CHALMERS

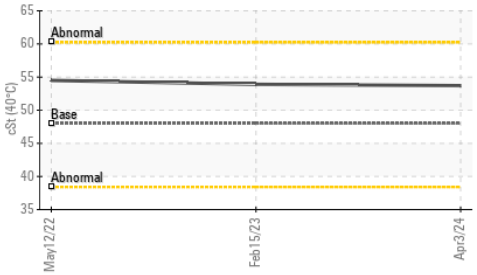
Non-ferrous Metals



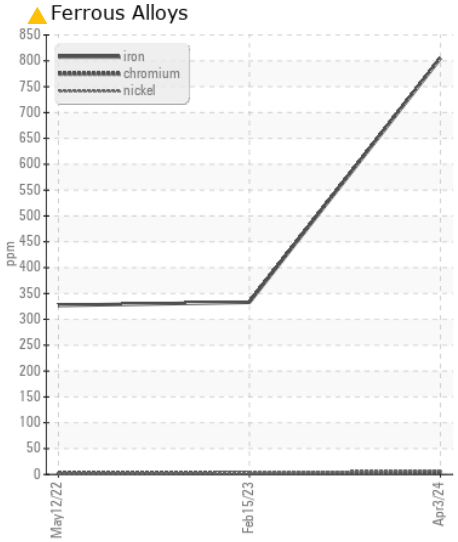
Ferrous Alloys



Viscosity @ 40°C



Ferrous Alloys



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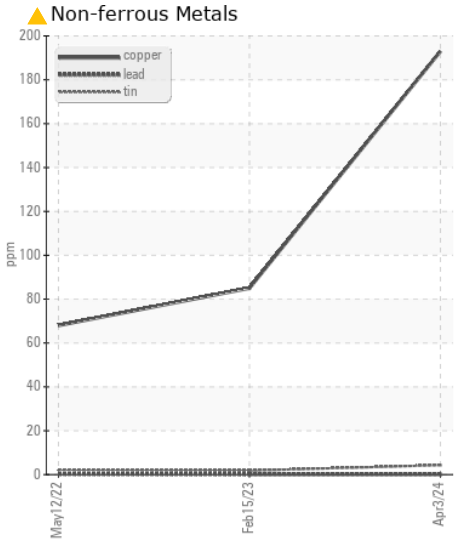
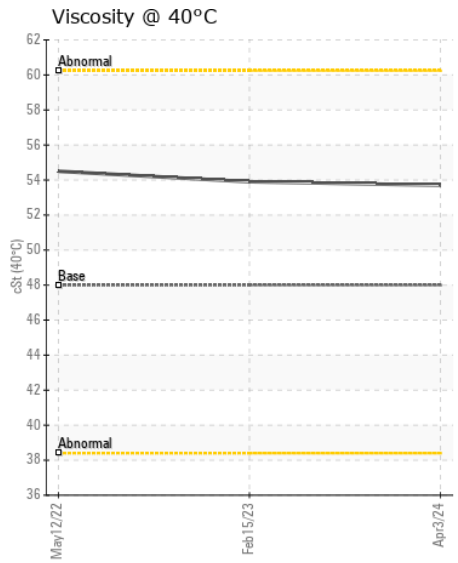


Viscosity @ 40°C



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : CL0005278
Lab Number : 06145468
Unique Number : 10970276
Test Package : CONST

Received : 10 Apr 2024
Tested : 11 Apr 2024
Diagnosed : 14 Apr 2024 - Don Baldridge

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)

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