CONST

LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
LIEBHERR L556 055637-1332
Component
Transmission (Manual)
Fluid
LIEBHERR GEAR MF 80W (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

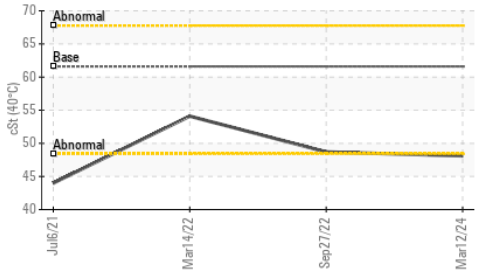
There is no indication of any contamination in the fluid.

FLUID CONDITION

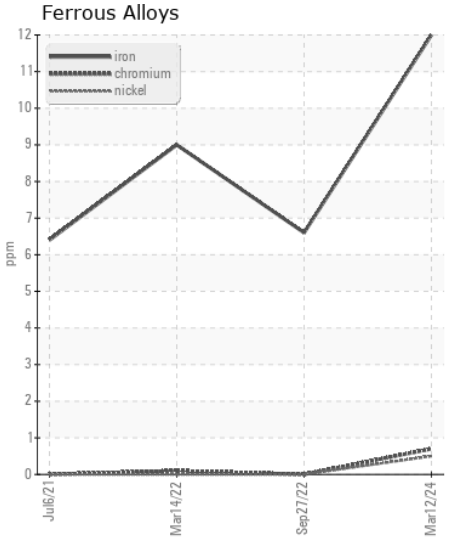
The condition of the fluid is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**LH0264450**	LH0220843	LH0207964
Sample Date		Client Info		**12 Mar 2024**	27 Sep 2022	14 Mar 2022
Machine Age	hrs	Client Info		**6581**	3494	2433
Oil Age	hrs	Client Info		**0**	0	0
Filter Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**Changed**	N/A	N/A
Filter Changed		Client Info		**Changed**	N/A	N/A
Sample Status				**NORMAL**	ABNORMAL	NORMAL
Iron	ppm	ASTM D5185m	>200	**12**	7	9
Chromium	ppm	ASTM D5185m	>5	**<1**	0	<1
Nickel	ppm	ASTM D5185m	>5	**<1**	0	0
Titanium	ppm	ASTM D5185m		**<1**	0	0
Silver	ppm	ASTM D5185m	>7	**0**	0	0
Aluminum	ppm	ASTM D5185m	>25	**3**	<1	1
Lead	ppm	ASTM D5185m	>45	**<1**	<1	1
Copper	ppm	ASTM D5185m	>225	**4**	2	2
Tin	ppm	ASTM D5185m	>10	**<1**	0	<1
Vanadium	ppm	ASTM D5185m		**<1**	0	0
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silicon	ppm	ASTM D5185m	>125	**8**	7	4
Potassium	ppm	ASTM D5185m	>20	**2**	2	0
Water		WC Method	>0.1	**NEG**	NEG	NEG
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	▲ MODER	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	>0.1	**NEG**	NEG	NEG
Sodium	ppm	ASTM D5185m		**7**	4	5
Boron	ppm	ASTM D5185m		**85**	87	36
Barium	ppm	ASTM D5185m		**<1**	0	0
Molybdenum	ppm	ASTM D5185m		**<1**	<1	<1
Manganese	ppm	ASTM D5185m		**<1**	<1	<1
Magnesium	ppm	ASTM D5185m		**8**	8	9
Calcium	ppm	ASTM D5185m		**3348**	3266	2689
Phosphorus	ppm	ASTM D5185m		**1145**	1098	1007
Zinc	ppm	ASTM D5185m		**1429**	1355	1136
Sulfur	ppm	ASTM D5185m		**7580**	8108	8298
Visc @ 40°C	cSt	ASTM D445	61.6	**48.1**	48.7	54.1

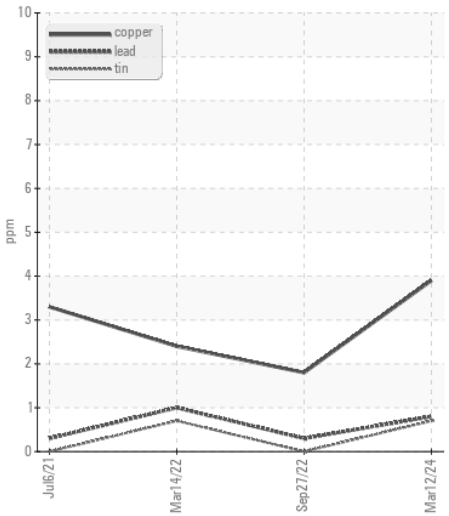
Viscosity @ 40°C



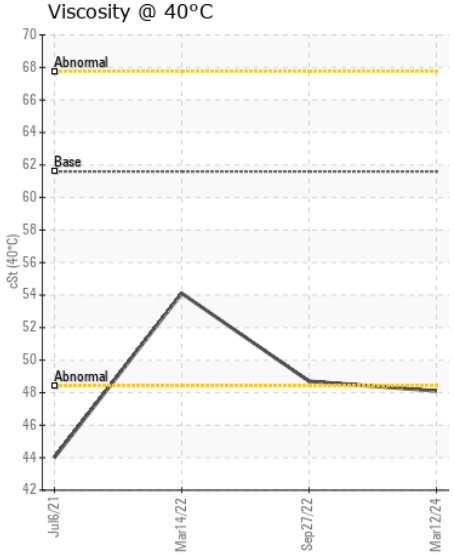
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LH0264450
Lab Number : 06149721
Unique Number : 10979799
Test Package : CONST

Received : 15 Apr 2024
Tested : 16 Apr 2024
Diagnosed : 16 Apr 2024 - Wes Davis

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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