MOB II

LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
LIEBHERR LH50M 107256-1216
Component
Hydraulic System
Fluid
{not provided} (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

WEAR

All component wear rates are normal.

CONTAMINATION

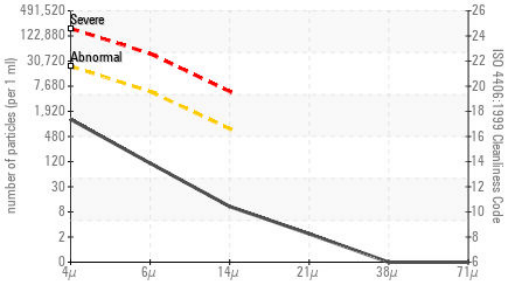
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

FLUID CONDITION

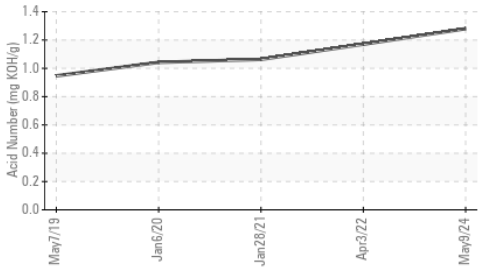
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH06176058	LH05509505	LH05170370
Sample Date		Client Info		09 May 2024	03 Apr 2022	28 Jan 2021
Machine Age	hrs	Client Info		3993	2974	1987
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	Changed	Changed
Sample Status				NORMAL	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>60	12	12	12
Chromium	ppm	ASTM D5185m	>40	1	2	2
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	<1	<1
Aluminum	ppm	ASTM D5185m	>5	0	<1	0
Lead	ppm	ASTM D5185m	>5	1	<1	<1
Copper	ppm	ASTM D5185m	>15	4	9	6
Tin	ppm	ASTM D5185m	>5	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>15	2	1	1
Potassium	ppm	ASTM D5185m	>20	2	0	1
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>20000	1080	---	2621
Particles >6µm		ASTM D7647	>5000	97	---	1428
Particles >14µm		ASTM D7647	>640	9	---	243
Particles >21µm		ASTM D7647	>160	2	---	82
Particles >38µm		ASTM D7647	>40	0	---	13
Particles >71µm		ASTM D7647	>10	0	---	1
Oil Cleanliness		ISO 4406 (c)	>21/19/16	17/14/10	---	19/18/15
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	▲ 0.2%	0.2%
Sodium	ppm	ASTM D5185m		3	0	1
Boron	ppm	ASTM D5185m		0	0	1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	<1	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		8	6	10
Calcium	ppm	ASTM D5185m		918	1186	1173
Phosphorus	ppm	ASTM D5185m		660	647	642
Zinc	ppm	ASTM D5185m		781	693	761
Sulfur	ppm	ASTM D5185m		3117	2610	2623
Acid Number (AN)	mg KOH/g	ASTM D8045		1.28	1.17	1.063
Visc @ 40°C	cSt	ASTM D445		41.6	42.5	43.0

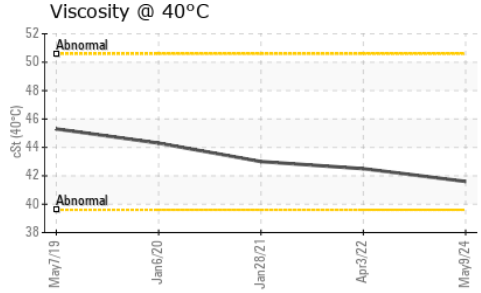
Particle Count



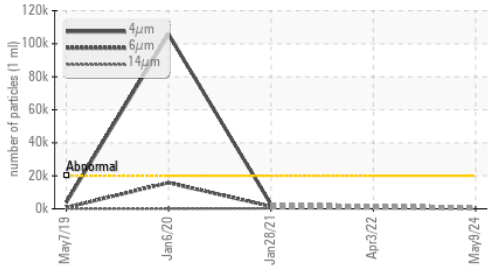
Acid Number



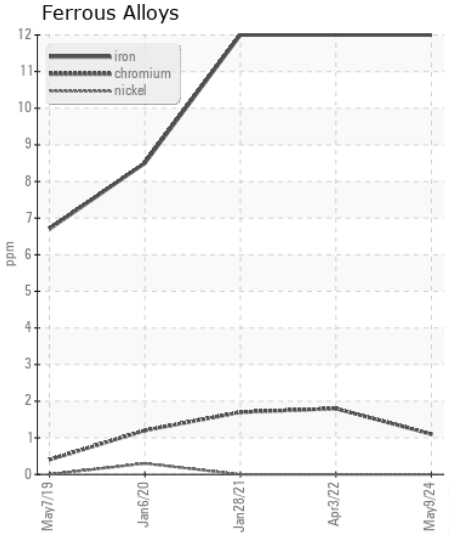
Viscosity @ 40°C



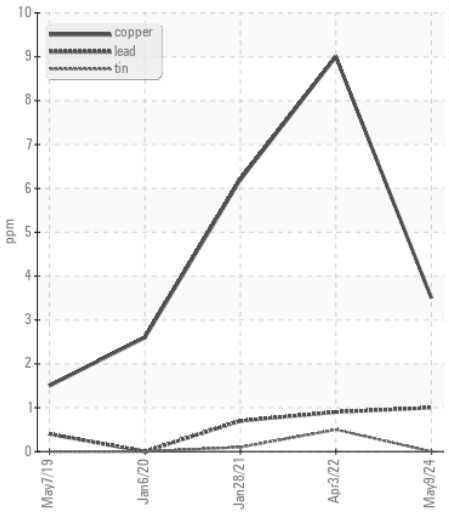
Particle Trend



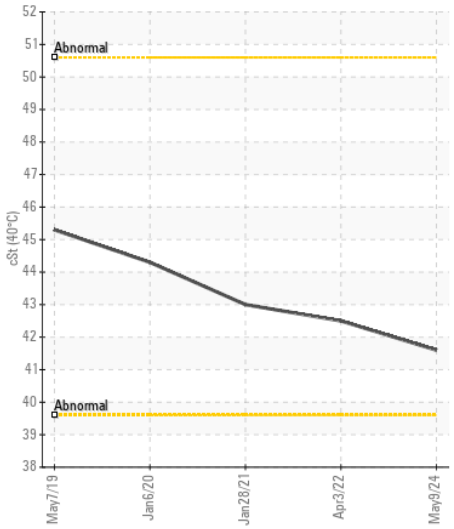
Ferrous Alloys



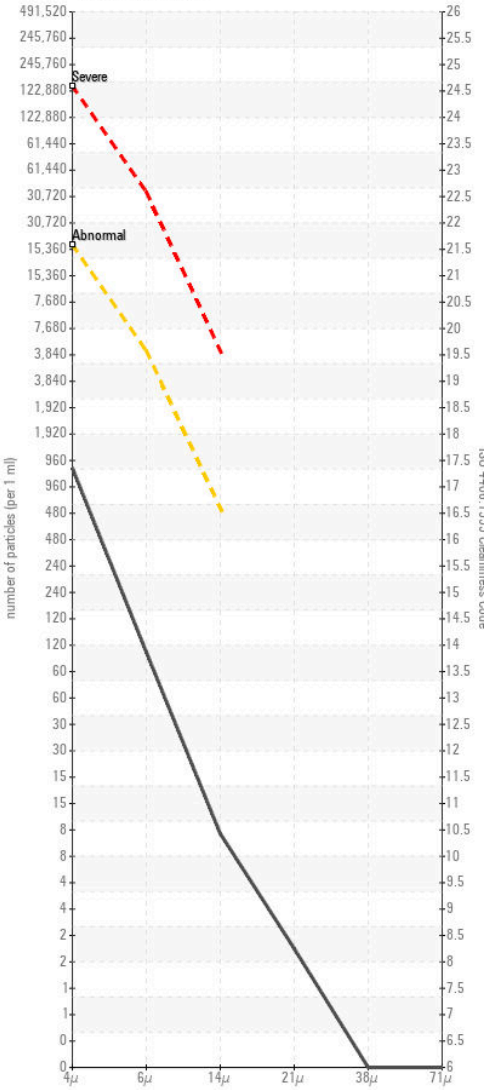
Non-ferrous Metals



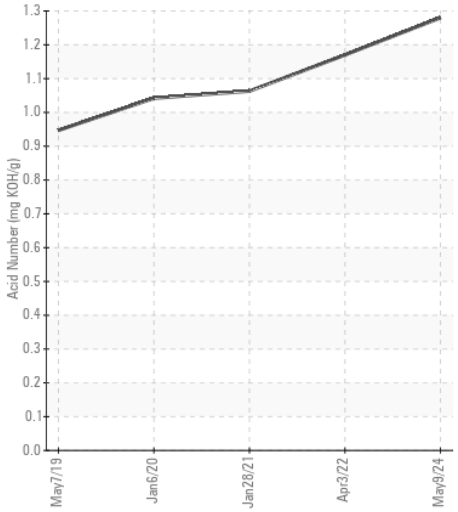
Viscosity @ 40°C



Particle Count



Acid Number



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LH06176058
Lab Number : 06176058
Unique Number : 11022111
Test Package : MOB 2

Received : 10 May 2024
Tested : 14 May 2024
Diagnosed : 14 May 2024 - Wes Davis

Certificate L2367

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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)