



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL



Machine Id
LIEBHERR L550 1756-59860
Component
Hydraulic System
Fluid
LIEBHERR HYDRAULIC HVI (--- GAL)

RECOMMENDATION

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0267679	LH0198684	LH0198671
Sample Date		Client Info		06 Dec 2023	06 May 2022	25 Feb 2022
Machine Age	hrs	Client Info		9838	5212	4088
Oil Age	hrs	Client Info		9838	0	0
Filter Age	hrs	Client Info		1000	0	0
Oil Changed		Client Info		Not Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ATTENTION	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	18	13	11
Chromium	ppm	ASTM D5185m	>10	2	4	3
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>10	2	<1	<1
Lead	ppm	ASTM D5185m	>10	3	3	2
Copper	ppm	ASTM D5185m	>75	3	4	4
Tin	ppm	ASTM D5185m	>10	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	▲ MODER	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

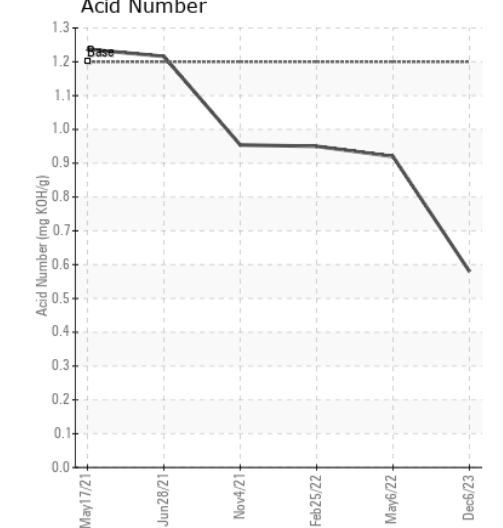
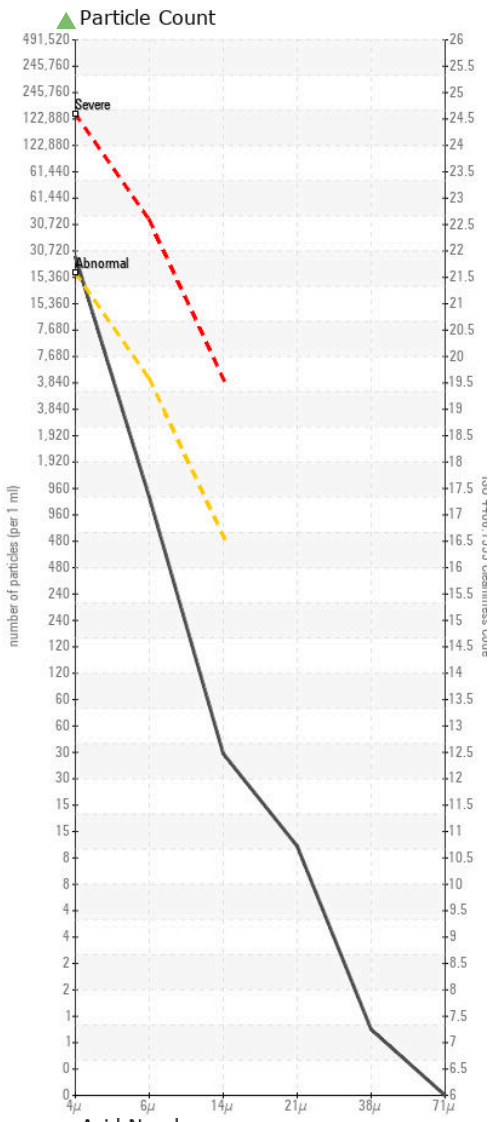
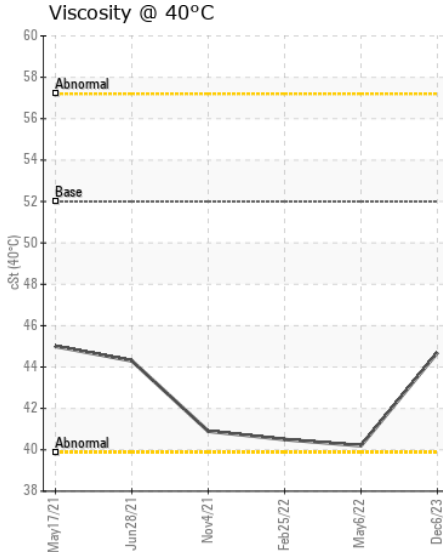
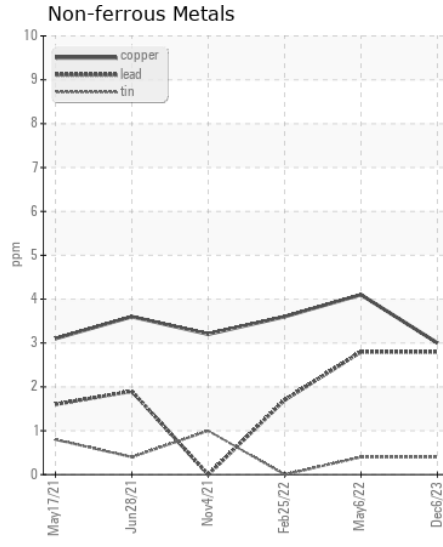
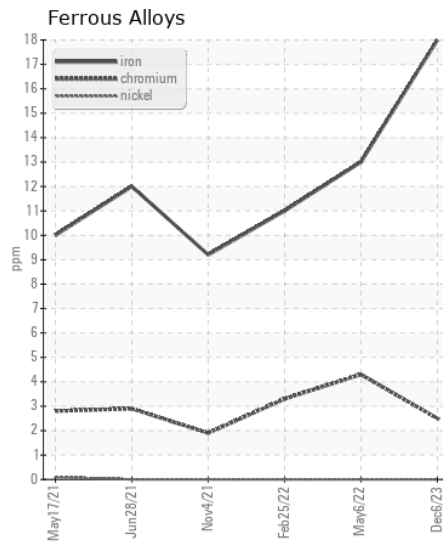
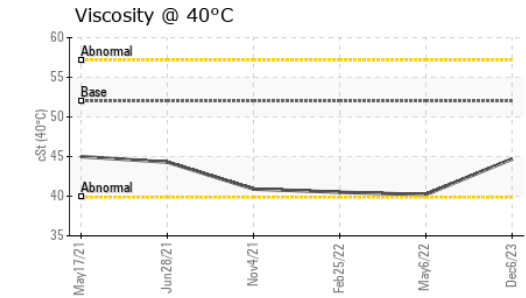
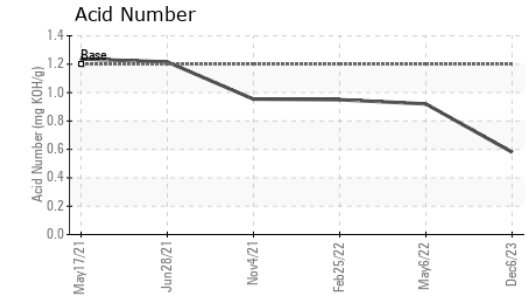
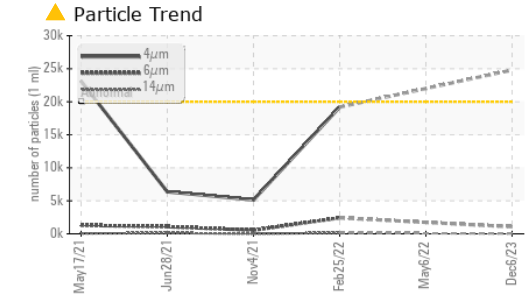
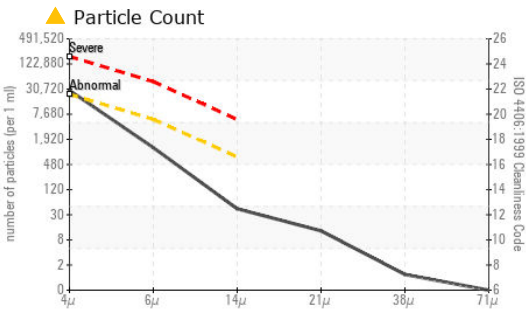
There is a light amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>20	3	2	2
Potassium	ppm	ASTM D5185m	>20	2	2	0
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>20000	▲ 24807	---	19193
Particles >6µm		ASTM D7647	>5000	1063	---	2413
Particles >14µm		ASTM D7647	>640	37	---	134
Particles >21µm		ASTM D7647	>160	11	---	49
Particles >38µm		ASTM D7647	>40	1	---	3
Particles >71µm		ASTM D7647	>10	0	---	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	▲ 22/17/12	---	21/18/14
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
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	>0.1	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		0	<1	2
Boron	ppm	ASTM D5185m		19	2	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		1	<1	<1
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	7	9	8	7
Calcium	ppm	ASTM D5185m	1500	1008	1137	1058
Phosphorus	ppm	ASTM D5185m	750	554	562	536
Zinc	ppm	ASTM D5185m	820	701	696	574
Sulfur	ppm	ASTM D5185m	4000	2062	2918	2835
Acid Number (AN)	mg KOH/g	ASTM D8045	1.2	0.58	0.92	0.95
Visc @ 40°C	cSt	ASTM D445	52	44.7	40.2	40.5



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LH0267679
Lab Number : 06061903
Unique Number : 10833285
Test Package : CONST

Received : 16 Jan 2024
Diagnosed : 17 Jan 2024
Diagnostician : Wes Davis

HOMEWOOD DISPOSAL
 1501 175TH ST
 HOMEWOOD, IL
 US 60430
 Contact: Service Manager

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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