



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION



Machine Id
LIEBHERR LH50 1216-123739
Component
Front Differential
Fluid
MOBIL DELVAC 1 5W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0211680	LH0211666	LH0211652
Sample Date		Client Info		31 Jan 2024	07 Dec 2023	09 Aug 2023
Machine Age	hrs	Client Info		10743	9985	8617
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changed	Changed	Not Changed
Filter Changed		Client Info		Not Changed	Changed	None
Sample Status				ATTENTION	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>190	9	5	86
Chromium	ppm	ASTM D5185m	>2	0	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>5	0	2	2
Lead	ppm	ASTM D5185m	>15	0	2	<1
Copper	ppm	ASTM D5185m	>70	6	2	57
Tin	ppm	ASTM D5185m	>2	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

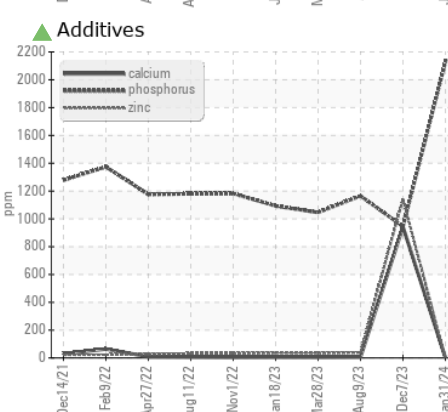
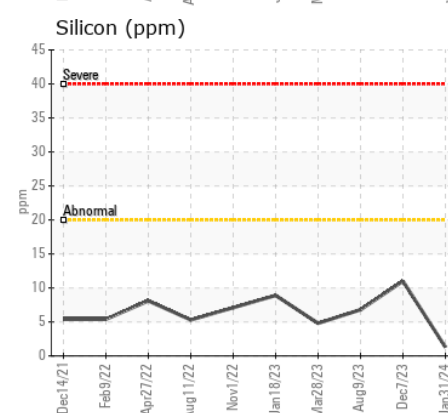
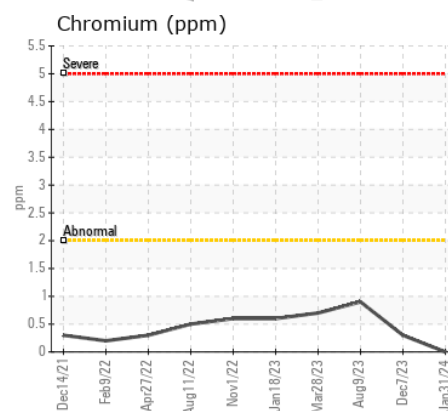
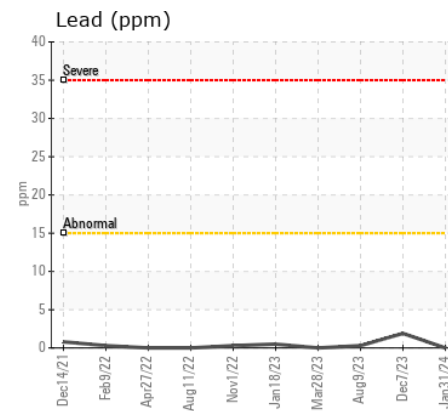
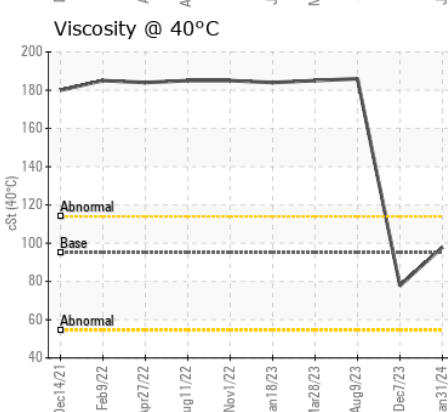
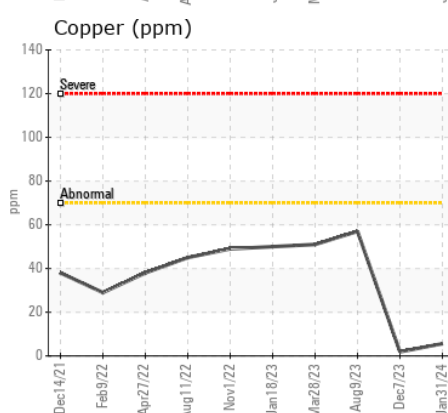
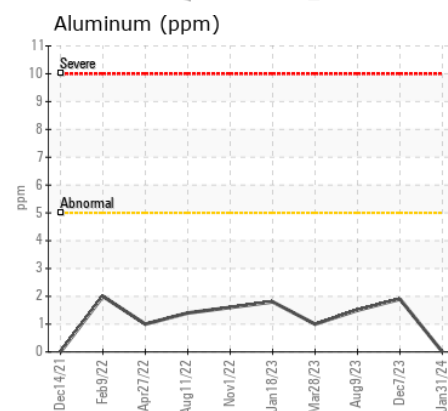
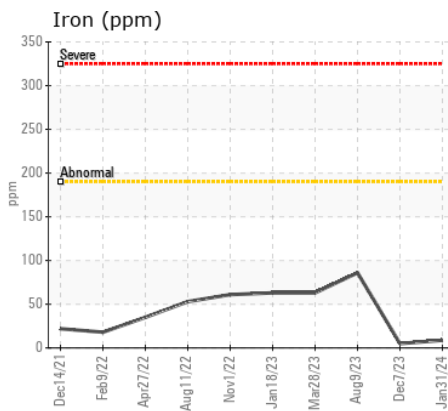
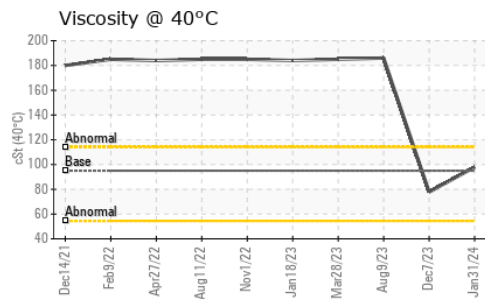
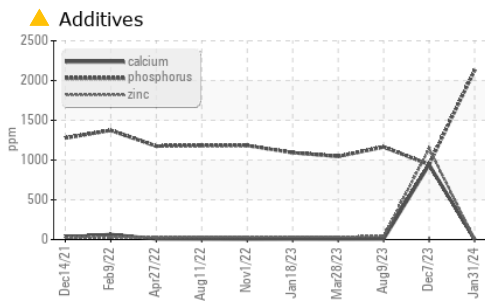
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	1	11	7
Potassium	ppm	ASTM D5185m	>20	0	1	<1
Water		WC Method	>.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	▲ MODER
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

Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type.

Sodium	ppm	ASTM D5185m		<1	0	2
Boron	ppm	ASTM D5185m	291	354	69	<1
Barium	ppm	ASTM D5185m	0.0	5	0	354
Molybdenum	ppm	ASTM D5185m	8.0	0	45	<1
Manganese	ppm	ASTM D5185m		<1	0	3
Magnesium	ppm	ASTM D5185m	624	▲ <1	834	<1
Calcium	ppm	ASTM D5185m	2158	▲ 1	942	7
Phosphorus	ppm	ASTM D5185m	1132	▲ 2128	945	1165
Zinc	ppm	ASTM D5185m	1300	▲ 3	1143	39
Sulfur	ppm	ASTM D5185m	3616	▲ 22411	3522	30942
Visc @ 40°C	cSt	ASTM D445	95	97.9	77.8	186



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LH0211680
Lab Number : 06084392
Unique Number : 10871837
Test Package : MOBCE
Received : 08 Feb 2024
Tested : 09 Feb 2024
Diagnosed : 12 Feb 2024 - Sean Felton

AHLSTROM-MUNKSJO NA SPECIALTY
 PO BOX 600
 KAUKAUNA, WI
 US 54130
 Contact: JOE SEITZ
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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)