CONST

LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
LIEBHERR LH40M 1215-124371
Component
Front Differential
Fluid
GEAR OIL SAE 80W90 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

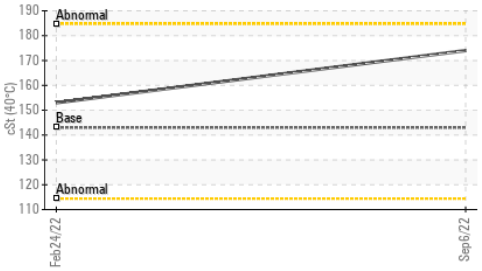
There is no indication of any contamination in the oil.

FLUID CONDITION

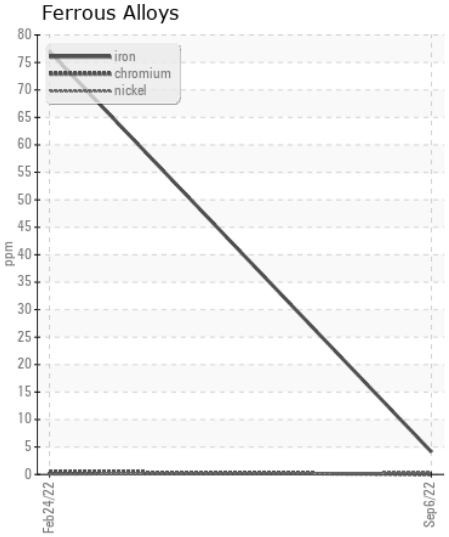
Confirm oil type. The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0236271	LH0213412	---
Sample Date		Client Info		06 Sep 2022	24 Feb 2022	---
Machine Age	hrs	Client Info		1949	1033	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Not Changd	None	---
Sample Status				NORMAL	NORMAL	---
Iron	ppm	ASTM D5185m	>150	4	77	---
Chromium	ppm	ASTM D5185m	>5	0	<1	---
Nickel	ppm	ASTM D5185m		<1	0	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m		<1	0	---
Aluminum	ppm	ASTM D5185m	>5	1	2	---
Lead	ppm	ASTM D5185m	>5	0	<1	---
Copper	ppm	ASTM D5185m	>125	6	40	---
Tin	ppm	ASTM D5185m	>5	<1	0	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	LIGHT	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>20	<1	12	---
Potassium	ppm	ASTM D5185m	>20	0	1	---
Water		WC Method	>0.2	NEG	NEG	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	---
Sodium	ppm	ASTM D5185m	>170	2	11	---
Boron	ppm	ASTM D5185m	400	2	7	---
Barium	ppm	ASTM D5185m	200	42	0	---
Molybdenum	ppm	ASTM D5185m	12	0	2	---
Manganese	ppm	ASTM D5185m		<1	3	---
Magnesium	ppm	ASTM D5185m	12	<1	2	---
Calcium	ppm	ASTM D5185m	150	9	283	---
Phosphorus	ppm	ASTM D5185m	1650	2163	2313	---
Zinc	ppm	ASTM D5185m	125	6	94	---
Sulfur	ppm	ASTM D5185m	22500	25056	24351	---
Visc @ 40°C	cSt	ASTM D445	143	174	153	---

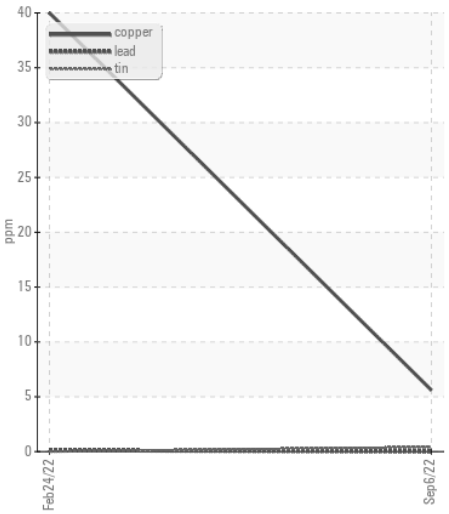
Viscosity @ 40°C



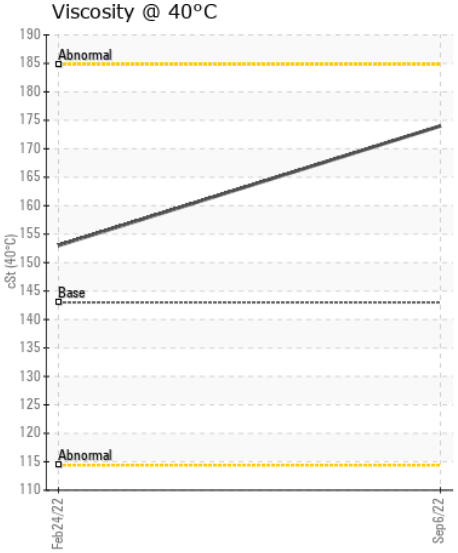
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LH0236271
Lab Number : 05640523
Unique Number : 10130053
Test Package : CONST

Received : 13 Sep 2022
Tested : 14 Sep 2022
Diagnosed : 15 Sep 2022 - Angela Borella

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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