

WEAR
CONTAMINATION
FLUID CONDITION

NORMAL NORMAL ATTENTION



Machine Id **LIEBHERR A934C 064064-1007**

Rear Right Wheel Hub

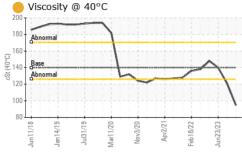
GEAR OIL LS 80W90 (1 GAL)

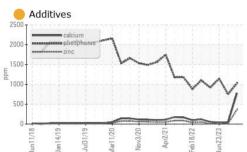
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
The oil change at the time of sampling has been noted. Resample at	Sample Number		Client Info		LH0290239	LH0272767	LH0254767
the next service interval to monitor.	Sample Date		Client Info		27 Jun 2024	21 Dec 2023	23 Jun 2023
	Machine Age	hrs	Client Info		26934	25949	24973
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				ATTENTION	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>500	26	18	22
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>4	0	<1	<1
	Nickel	ppm	ASTM D5185m	>3	<1	<1	0
	Titanium	ppm	ASTM D5185m		<1	1	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>15	<1	2	<1
	Lead	ppm	ASTM D5185m	>4	0	<1	0
	Copper	ppm	ASTM D5185m	>100	2	4	3
	Tin	ppm	ASTM D5185m	>3	0	<1	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	Silicon	ppm	ASTM D5185m	>65	4	2	4
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	<1	2	2
	Water		WC Method	>0.2	NEG	NEG	NEG
	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

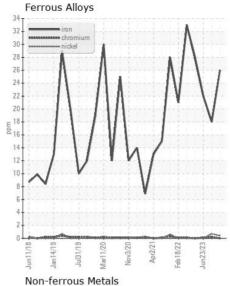
FLUID CONDITION

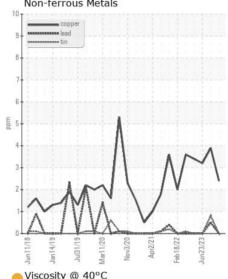
The oil viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type.

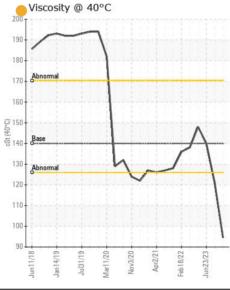
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m		1	0	<1
Boron	ppm	ASTM D5185m	150	0	3	8
Barium	ppm	ASTM D5185m		0	0	2
Molybdenum	ppm	ASTM D5185m		0	1	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	10	6	8	9
Calcium	ppm	ASTM D5185m	70	781	46	40
Phosphorus	ppm	ASTM D5185m	2000	1030	750	1144
Zinc	ppm	ASTM D5185m	50	356	9	36
Sulfur	ppm	ASTM D5185m	20000	22626	25051	30969
Visc @ 40°C	cSt	ASTM D445	140	94.5	121	140















Certificate L2367

Laboratory Sample No.

Lab Number : 06237182 Unique Number : 11126016

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : LH0290239

Received : 15 Jul 2024 **Tested** : 17 Jul 2024 Diagnosed : 17 Jul 2024 - Don Baldridge Test Package : CONST

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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)