# LIEBHERR

## **CONSTRUCTION EQUIPMENT**

### LIEBHERR A934C 064064-1007 - Rear Differential

Sample No: LH0268383

Oil Type: CHEVRON DELO GEAR ESI OIL 80W90

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Sam	ple Infor	mation			
Sample Number		LH0268383	LH0272763	LH0254763	LH0243215
Sample Date		27 Jun 2024	21 Dec 2023	23 Jun 2023	10 Jan 2023
Machine Hours		26934	25949	24973	24002
Oil Hours		0	0	0	0
Oil Changed		Changed	Changed	Changed	Changed
Sample Status		ATTENTION	NORMAL	NORMAL	NORMAL
Oil Co	ondition				
Visc @ 40°C	cSt	98.0	O 120	O 140	O 147
<b></b>		<b>O</b> 2213	0 120	0	0
Cont	aminatio	on			
Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<b>4</b>	O 2	<b>4</b>	<b>2</b>
Sodium	ppm	<b>1</b>	O 0	O 0	O 2
Potassium	ppm	<b>O</b> <1	O <1	O 2	O 1
Wea	r Metals				
Iron	ppm	<b>21</b>	O 21	<b>19</b>	<b>18</b>
Copper	ppm	<b>2</b>	<b>5</b>	<b>3</b>	<b>3</b>
Lead	ppm	<b>0</b>	O <1	<1	O 0
Tin	ppm	<b>0</b> 0	O <1	0	0
Aluminum	ppm	<b>()</b> <1	O 1	O <1	O <1
Chromium	ppm	<b>0</b>	O <1	0	0
Molybdenum	ppm	<b>0</b>	O <1	<1	<1
Nickel	ppm	<b>()</b> <1	O <1	0	0
Titanium	ppm	<1	1	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<b>()</b> <1	O <1	O <1	O <1
Vanadium	ppm	0	0	0	0
Addi	tives				
Calcium	ppm	<b>677</b>	O 44	41	60
Magnesium	ppm	<b>0</b> 7	0 7	<b>9</b>	O 11
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38

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0 12

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#### Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. 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.

Depot:LEC0008Unique No:11126017Signed:Don BaldridgeReport Date:17 Jul 2024

**310** 

990

0

0

ppm

ppm

ppm

ppm

Zinc

Barium

Boron

Phosphorus

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### **Graphs**

