# LIEBHERR

### **CONSTRUCTION EQUIPMENT**

### LIEBHERR A924C 063248-1049 - Swing Drive

Sample No: LH0244689

Oil Type: LIEBHERR GEAR BASIC 90 LS

SAMPLE INFORM	MATION			
Sample Number	LH0244689	LHMC110709	LH0203804	LHMC124977
Sample Date	13 Jun 2023	12 Dec 2022	09 Nov 2021	11 Jan 2021
Machine Hours	14367	14026	12824	11737
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	SEVERE	SEVERE	SEVERE	ABNORMAL

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OIL CO	NDITION				
40°C	cSt	<b>197</b>	O 210	O 217	<b>187</b>

CON	<b>ITAMIN</b>	ATION				
Water	%		0.431	0.903	0.417	
Silicon	ppm	<b>0</b> 1	0 8	<b>O</b> 5	<b>3</b>	
Sodium	ppm	<b>2</b>	<b>4</b>	<b>7</b>	<b>4</b>	
Potassium	ppm	<b>4</b>	O 10	O 14	O 1	

(O) WEAT					
WEA	R METALS				
Iron	ppm	947	<b>1962</b>	<b>1297</b>	O 555
Copper	ppm	<b>221</b>	<b>404</b>	O 333	O 179
Lead	ppm	<b>○</b> <1	O <1	O <1	O 0
Tin	ppm	<b>4</b>	O 4	<b>4</b>	O 0
Aluminum	ppm	<b>()</b> <1	<b>5</b>	<b>3</b>	O <1
Chromium	ppm	<b>7</b>	<u> </u>	<u>11</u>	O 5
Molybdenum	ppm	<b>2</b>	<b>5</b>	<b>6</b>	O <1
Nickel	ppm	<b>0</b>	O <1	3	0
Titanium	ppm	0	<1	<1	0
Silver	ppm	0	0	0	<1
Manganese	ppm	<b>7</b>	O 15	<b>1</b> 1	<b>6</b>
Vanadium	ppm	0	0	<1	0

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ADD	ITIVES					
Calcium	ppm	<b>8</b>	16	35	23	
Magnesium	ppm	<b>5</b>	O 2	O 2	O 2	
Zinc	ppm	29	O 51	<b>o</b> 56	93	
Phosphorus	ppm	<b>2351</b>	O 2448	<b>2576</b>	O 1615	
Barium	ppm	<b>0</b>	O <1	O 0	O 0	
Boron	ppm	<b>0</b>	<b>3</b>	<b>10</b>	<b>5</b>	



DUMES INC 1640 NORTH 6TH ST VINCENNES, IN US 47591 Contact:

T: F:

#### Diagnosis

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Bearing and/or gear wear is indicated. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot:DUMVINLHUnique No:10536750Signed:Doug BogartReport Date:02 Jul 2023

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## **CONSTRUCTION EQUIPMENT**





#### **GRAPHS**

