LIEBHERR

CONSTRUCTION EQUIPMENT

LIEBHERR A924C 064060-1049 - Front Differential

Sample No: LH0229949

Lead

Aluminum

Chromium

Nickel

Silver

Titanium

Manganese

Molybdenum

Tin

ppm

ppm

ppm

ppm

ppm

ppm

ppm

ppm

ppm

0

0

0 <1

2

9

0

0

<1

Oil Type: REPUBLIC CRANE GEAR OIL 90LS PLUS

5									
SAM	PLE INF	ORMATION							
Sample Number		LH0229949	LHMC158140	LHMC144425	LHMC144422				
Sample Date		09 Jan 2024	01 Sep 2022	22 Oct 2020	17 Feb 2020				
Machine Hours		23880	20945	16690	15294				
Oil Hours		0	0	1350	0				
Oil Changed		Changed	Changed	Changed	Changed				
Sample Status		ABNORMAL	ABNORMAL	ABNORMAL	ATTENTION				
OILC	ONDITI	ON							
Visc @ 40°C	cSt	213	O 203	197	196				
- 1 min									
CONTAMINATION									
Water	%	0.341	0.273	0.262	0.185				
Silicon	ppm	1	O 2	0 2	O <1				
Sodium	ppm	3	O 5	1	O <1				
Potassium	ppm	() <1	O 0	O <1	O 2				
WEA	R META	LS							
Iron	ppm	404	468	○ 340	O 144				
Copper	ppm	2	3	O 2	1				



MIDWEST METALS CORP 40 WINDHURST WAY SHELBYVILLE, KY US 40065 Contact: JIMMY RENFROE jimmyr@mwmcorp.com

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Diagnosis

No corrective action is recommended at this time. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. Gear wear is indicated. All other component wear rates are normal. There is a light concentration of water present in the oil. The condition of the oil is acceptable for the time in service.

Vanadium	ppm	<1	0	0	0				
MII.									
ADDITIVES									
Calcium	ppm	31	43	39	32				
Magnesium	ppm	2	2	2	1				
Zinc	ppm	21	14	8	10				
Phosphorus	ppm	2240	2140	2323	1933				
Barium	ppm	1	<1	0	0				
Boron	ppm	0	0	4	2				

02

02

<1

0

 \bigcirc 2

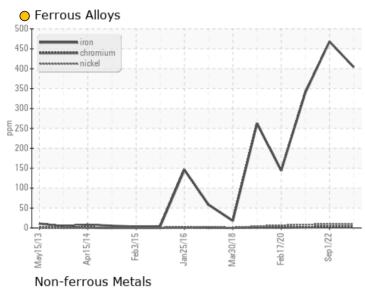
Depot:MIDSHELHUnique No:10843018Signed:Don BaldridgeReport Date:23 Jan 2024

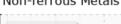
CONSTRUCTION EQUIPMENT

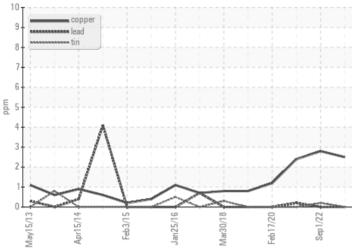




GRAPHS







Viscosity @ 40°C

