

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR L580 1414-56018 -Rear Differential

Sample No: LH06027241

Oil Type: LIEBHERR GEAR BASIC 90 LS



#### SAMPLE INFORMATION

Sample Number	LH06027241	LH05836132	LH05785856	VCP05725551
Sample Date	05 Dec 2023	01 May 2023	06 Mar 2023	26 Dec 2022
Machine Hours	0	13020	0	0
Oil Hours	15017	0	1208	10993
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	ABNORMAL

**VERSO CORP - QUINNESEC MILL**  
W6791 US HWY 2  
QUINNESEC, MI  
US 49876  
Contact: ERIC LARSON  
eric.larson@versoco.com  
T:  
F:



#### OIL CONDITION

Visc @ 40°C	cSt	173	187	178	169
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#### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	4	4	6	5
Sodium	ppm	0	2	1	2
Potassium	ppm	<1	0	1	0



#### WEAR METALS

Iron	ppm	252	108	111	142
Copper	ppm	116	100	95	105
Lead	ppm	<1	0	0	4
Tin	ppm	9	4	6	3
Aluminum	ppm	2	<1	<1	0
Chromium	ppm	1	<1	<1	1
Molybdenum	ppm	<1	0	0	0
Nickel	ppm	<1	0	<1	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	3	2	2	2
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Calcium	ppm	6	5	15	14
Magnesium	ppm	0	0	<1	0
Zinc	ppm	21	14	22	25
Phosphorus	ppm	2733	2640	2398	2801
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	0

#### 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. The copper level is abnormal. Bearing and/or bushing 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: VERQUI  
Unique No: 10777032  
Signed: Don Baldrige  
Report Date: 08 Dec 2023

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### GRAPHS

