

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR L580 1414-56018 - Front Left Wheel Hub

Sample No: LH06027239

Oil Type: GEAR OIL SAE 80W90



#### SAMPLE INFORMATION

Sample Number	LH06027239	LH05836134	LH05785855	VCP05725555
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	189	189	169
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#### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	5	7	9	7
Sodium	ppm	<1	2	1	2
Potassium	ppm	<1	0	1	0



#### WEAR METALS

Iron	ppm	266	185	191	219
Copper	ppm	139	175	181	164
Lead	ppm	<1	0	0	9
Tin	ppm	10	8	10	8
Aluminum	ppm	2	<1	<1	0
Chromium	ppm	1	<1	1	1
Molybdenum	ppm	<1	0	<1	0
Nickel	ppm	<1	0	<1	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	2	2	2	2
Vanadium	ppm	0	<1	<1	0



#### ADDITIVES

Calcium	ppm	30	7	9	12
Magnesium	ppm	<1	0	1	0
Zinc	ppm	42	24	36	37
Phosphorus	ppm	2715	2599	2318	2841
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: 10777030  
Signed: Angela Borella  
Report Date: 08 Dec 2023



### GRAPHS

