

# LIEBHERR

## CONSTRUCTION EQUIPMENT



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

Sample No: LH06027237

Oil Type: GEAR OIL SAE 80W90



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



#### SAMPLE INFORMATION

Sample Number	LH06027237	LH05836133	LH05785857	VCP05725549
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	N/A	Changed
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	ABNORMAL



#### OIL CONDITION

Visc @ 40°C	cSt	173	188	176	169
-------------	-----	-----	-----	-----	-----



#### CONTAMINATION

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



#### WEAR METALS

Iron	ppm	240	103	111	141
Copper	ppm	110	95	93	103
Lead	ppm	0	0	<1	6
Tin	ppm	8	4	6	4
Aluminum	ppm	2	<1	<1	0
Chromium	ppm	1	<1	<1	1
Molybdenum	ppm	<1	0	0	<1
Nickel	ppm	<1	0	<1	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	2	2	1	2
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Calcium	ppm	8	5	15	28
Magnesium	ppm	0	0	<1	0
Zinc	ppm	23	12	22	31
Phosphorus	ppm	2619	2621	2393	2785
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	<1

#### 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: 10777028  
 Signed: Angela Borella  
 Report Date: 08 Dec 2023



### GRAPHS

