

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR L580 1414-56018 - Front Differential

Sample No: LH06027240

Oil Type: LIEBHERR GEAR BASIC 90 LS



#### SAMPLE INFORMATION

Sample Number	LH06027240	LH05836131	LH05785859	VCP05725552
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  
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T:  
F:



#### OIL CONDITION

Visc @ 40°C	cSt	175	189	190	170
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#### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	5	8	9	7
Sodium	ppm	0	2	1	2
Potassium	ppm	<1	0	1	0



#### WEAR METALS

Iron	ppm	269	191	196	217
Copper	ppm	141	183	186	158
Lead	ppm	<1	0	0	8
Tin	ppm	10	8	10	5
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	29	11	7	13
Magnesium	ppm	0	0	<1	0
Zinc	ppm	38	52	35	37
Phosphorus	ppm	2746	2798	2289	2818
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	0

#### Diagnosis

No corrective action is recommended at this time. Oil and filter 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: 10777031  
Signed: Angela Borella  
Report Date: 08 Dec 2023



### GRAPHS

