

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR L580 1414-56018 - Front Differential

Sample No: LH06062220

Oil Type: LIEBHERR GEAR BASIC 90 LS



#### SAMPLE INFORMATION

Sample Number	LH06062220	LH06027240	LH05836131	LH05785859
Sample Date	05 Jan 2024	05 Dec 2023	01 May 2023	06 Mar 2023
Machine Hours	15250	0	13020	0
Oil Hours	0	15017	0	1208
Oil Changed	N/A	Changed	Changed	Changed
Sample Status	NORMAL	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	183	175	189	190
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#### CONTAMINATION

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

#### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the fluid. The condition of the fluid is acceptable for the time in service.



#### WEAR METALS

Iron	ppm	57	269	191	196
Copper	ppm	55	141	183	186
Lead	ppm	0	<1	0	0
Tin	ppm	2	10	8	10
Aluminum	ppm	<1	2	<1	<1
Chromium	ppm	<1	1	<1	1
Molybdenum	ppm	0	<1	0	<1
Nickel	ppm	0	<1	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	1	2	2	2
Vanadium	ppm	0	0	<1	<1



#### ADDITIVES

Calcium	ppm	43	29	11	7
Magnesium	ppm	2	0	0	<1
Zinc	ppm	16	38	52	35
Phosphorus	ppm	2250	2746	2798	2289
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	0

Depot: VERQUI  
Unique No: 10833602  
Signed: Don Baldrige  
Report Date: 18 Jan 2024



### GRAPHS

