

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L580 1414-56018 - Rear Right Wheel Hub

Sample No: LH06027236

Oil Type: GEAR OIL SAE 80W90



SAMPLE INFORMATION

Sample Number	LH06027236	LH05836135	LH05785853	VCP05725553
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
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OIL CONDITION

Visc @ 40°C	cSt	170	188	176	170
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CONTAMINATION

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



WEAR METALS

Iron	ppm	245	107	117	137
Copper	ppm	109	100	99	104
Lead	ppm	<1	0	<1	4
Tin	ppm	8	5	6	2
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	2	2	2	2
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	38	5	31	13
Magnesium	ppm	<1	0	<1	0
Zinc	ppm	35	11	31	23
Phosphorus	ppm	2637	2613	2540	2735
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: 10777027
Signed: Angela Borella
Report Date: 08 Dec 2023



GRAPHS

