

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L580 1414-56018 - Front Right Wheel Hub

Sample No: LH06027242

Oil Type: GEAR OIL SAE 80W90



SAMPLE INFORMATION

Sample Number	LH06027242	LH05836136	LH05785858	VCP05725550
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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F:



OIL CONDITION

Visc @ 40°C	cSt	176	190	189	170
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CONTAMINATION

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



WEAR METALS

Iron	ppm	270	186	198	222
Copper	ppm	141	180	184	165
Lead	ppm	<1	0	0	8
Tin	ppm	10	8	10	6
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	<1	<1	0



ADDITIVES

Calcium	ppm	30	5	6	14
Magnesium	ppm	0	0	<1	0
Zinc	ppm	36	22	35	40
Phosphorus	ppm	2790	2595	2386	2884
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	0

Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. The copper level is abnormal. All other component wear rates are normal. 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: 10777033
Signed: Jonathan Hester
Report Date: 11 Dec 2023



GRAPHS

