

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L580 071613-1760 - Front Right Wheel Hub

Sample No: LH0292401

Oil Type: LIEBHERR GEAR BASIC 90 LS



Sample Information

Sample Number	LH0292401	LH0277092	---	---
Sample Date	22 Jun 2024	14 Oct 2023	---	---
Machine Hours	2202	1054	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

BIRCH HILL CONSTRUCTION
 11 MCELROY ST.
 MONCTON, NB
 CA E1C 9T2
 Contact: Service Manager



Oil Condition

Visc @ 40°C	cSt	● 186	194	---	---
-------------	-----	-------	-----	-----	-----

T:
F:



Contamination

Water	%	NEG	NEG	---	---
Silicon	ppm	● 12	● 21	---	---
Sodium	ppm	● 4	● 6	---	---
Potassium	ppm	● 1	● 2	---	---

Diagnosis

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.



Wear Metals

Iron	ppm	● 133	● 214	---	---
Copper	ppm	● 67	● 162	---	---
Lead	ppm	● 2	● 4	---	---
Tin	ppm	5	9	---	---
Aluminum	ppm	● <1	● 1	---	---
Chromium	ppm	● 2	● 2	---	---
Molybdenum	ppm	● 0	● 0	---	---
Nickel	ppm	● <1	● 1	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	<1	---	---
Manganese	ppm	● 28	● 56	---	---
Vanadium	ppm	0	0	---	---



Additives

Calcium	ppm	● 8	● 8	---	---
Magnesium	ppm	● 1	● 3	---	---
Zinc	ppm	40	57	---	---
Phosphorus	ppm	● 2198	● 2294	---	---
Barium	ppm	● <1	● <1	---	---
Boron	ppm	● 4	● 2	---	---

Depot: BIRMION
 Unique No: 5802195
 Signed: Kevin Marson
 Report Date: 02 Jul 2024



Graphs

