

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L580 071613-1760 - Front Left Wheel Hub

Sample No: LH0292402

Oil Type: LIEBHERR GEAR BASIC 90 LS



Sample Information

Sample Number	LH0292402	LH0277091	---	---
Sample Date	27 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	193	---	---
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T:
F:



Contamination

Water	%	NEG	NEG	---	---
Silicon	ppm	● 11	● 20	---	---
Sodium	ppm	● 3	● 5	---	---
Potassium	ppm	● <1	● <1	---	---

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	● 130	● 213	---	---
Copper	ppm	● 66	● 161	---	---
Lead	ppm	● 1	● 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	<1	<1	---	---
Manganese	ppm	28	55	---	---
Vanadium	ppm	0	0	---	---



Additives

Calcium	ppm	● 11	● 9	---	---
Magnesium	ppm	● 1	● 2	---	---
Zinc	ppm	39	57	---	---
Phosphorus	ppm	● 2199	● 2264	---	---
Barium	ppm	● <1	● <1	---	---
Boron	ppm	● 2	● 3	---	---

Depot: BIRMION
Unique No: 5802197
Signed: Kevin Marson
Report Date: 02 Jul 2024



Graphs

