

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L580 069050-1760 - Front Left Wheel Hub

Sample No: LH0240411

Oil Type: LIEBHERR GEAR BASIC 90 LS



SAMPLE INFORMATION

Sample Number	LH0240411	LH0240389	LH0240378	---
Sample Date	15 Sep 2023	08 Mar 2023	13 Dec 2022	---
Machine Hours	4000	2000	1005	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	ATTENTION	NORMAL	NORMAL	---

PRODUITS FORESTIERS D.G. LTEE
 313 RANG ST-JOSEPH
 STE-AURELIE, QC
 CA G0M 1M0
 Contact: Roger .



OIL CONDITION

Visc @ 40°C	cSt	186	182	194	---
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T: (418)593-3547
 F: (418)593-3633



CONTAMINATION

Silicon	ppm	15	8	33	---
Sodium	ppm	5	1	6	---
Potassium	ppm	<1	0	<1	---

Diagnosis

We recommend an early resample to monitor this condition. Lead ppm levels are noted. Copper and tin ppm levels are marginal. 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.



WEAR METALS

Iron	ppm	247	78	271	---
Copper	ppm	189	105	184	---
Lead	ppm	5	3	5	---
Tin	ppm	18	6	13	---
Aluminum	ppm	1	<1	2	---
Chromium	ppm	1	<1	3	---
Molybdenum	ppm	0	0	0	---
Nickel	ppm	<1	<1	2	---
Titanium	ppm	0	0	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	11	8	56	---
Vanadium	ppm	0	0	<1	---



ADDITIVES

Calcium	ppm	6	6	9	---
Magnesium	ppm	2	3	3	---
Zinc	ppm	141	33	81	---
Phosphorus	ppm	2460	2521	2352	---
Barium	ppm	<1	0	0	---
Boron	ppm	2	1	2	---

Depot: PRO9STE
 Unique No: 5645579
 Signed: Bill Quesnel
 Report Date: 22 Sep 2023



GRAPHS

