

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L566 054116-1484 - Front Right Wheel Hub

Sample No: LH0281156

Oil Type: LIEBHERR GEAR BASIC 90 LS



SAMPLE INFORMATION

Sample Number	LH0281156	---	---	---
Sample Date	04 Jan 2024	---	---	---
Machine Hours	9598	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	SEVERE	---	---	---

Abbycel Substrate Ltd.
 3545 Ross Road
 Abbotsford, BC
 CA V4X 1M6
 Contact: Service Manager



OIL CONDITION

Visc @ 40°C	cSt	193	---	---	---
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T:
F:



CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	30	---	---	---
Sodium	ppm	6	---	---	---
Potassium	ppm	1	---	---	---

Diagnosis

The oil change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition. Copper and nickel ppm levels are severe. Tin ppm levels are abnormal. Bearing and/or bushing wear is indicated. There is no indication of any contamination in the oil. Additive levels indicate the addition of a different brand, or type of oil. Viscosity of sample indicates oil is within SAE 90 range, advise investigate. The oil is no longer serviceable as a result of the abnormal and/or severe wear.



WEAR METALS

Iron	ppm	274	---	---	---
Copper	ppm	94	---	---	---
Lead	ppm	3	---	---	---
Tin	ppm	6	---	---	---
Aluminum	ppm	2	---	---	---
Chromium	ppm	3	---	---	---
Molybdenum	ppm	0	---	---	---
Nickel	ppm	13	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	43	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	4	---	---	---
Magnesium	ppm	4	---	---	---
Zinc	ppm	27	---	---	---
Phosphorus	ppm	2255	---	---	---
Barium	ppm	<1	---	---	---
Boron	ppm	2	---	---	---

Depot: ABB354ABB
Unique No: 5709022
Signed: Kevin Marson
Report Date: 11 Jan 2024



GRAPHS

