

LIEBHERR

CONSTRUCTION EQUIPMENT



[(357697)] LIEBHERR PR766 016664-1421 - Left Final Drive

Sample No: LH0194334

Oil Type: LIEBHERR GEAR BASIC 90 LS



Sample Information

Sample Number	LH0194334	---	---	---
Sample Date	06 Sep 2021	---	---	---
Machine Hours	144	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	NORMAL	---	---	---

HEAVY IRON INC
 370145 79 STREET EAST
 ALDERSYDE, AB
 CA T0L 0A0
 Contact: Service Manager



Oil Condition

Visc @ 40°C	cSt	325	---	---	---
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T:
F:



Contamination

Water	%	NEG	---	---	---
Silicon	ppm	11	---	---	---
Sodium	ppm	5	---	---	---
Potassium	ppm	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. Viscosity of sample indicates oil is within SAE 90W140 range, advise investigate. The condition of the oil is acceptable for the time in service.



Wear Metals

Iron	ppm	199	---	---	---
Copper	ppm	84	---	---	---
Lead	ppm	4	---	---	---
Tin	ppm	5	---	---	---
Aluminum	ppm	3	---	---	---
Chromium	ppm	2	---	---	---
Molybdenum	ppm	<1	---	---	---
Nickel	ppm	<1	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	<1	---	---	---
Manganese	ppm	3	---	---	---
Vanadium	ppm	0	---	---	---



Additives

Calcium	ppm	49	---	---	---
Magnesium	ppm	2	---	---	---
Zinc	ppm	23	---	---	---
Phosphorus	ppm	1199	---	---	---
Barium	ppm	80	---	---	---
Boron	ppm	5	---	---	---

Depot: HEAALD
Unique No: 5278186
Signed: Kevin Marson
Report Date: 08 Sep 2021



Graphs

