

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR L566 44921-1484 - Transmission (Manual)

Sample No: LH0274679

Oil Type: LIEBHERR GEAR BASIC 90 LS



**LIEBHERR CANADA LTD.**  
 1015 SUTTON DRIVE  
 BURLINGTON, ON  
 CA L7L 5Z8  
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#### SAMPLE INFORMATION

Sample Number	LH0274679	LH0251540	---	---
Sample Date	09 Aug 2023	28 Feb 2023	---	---
Machine Hours	4355	3589	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Not Changd	---	---
Sample Status	ABNORMAL	ABNORMAL	---	---



#### OIL CONDITION

Visc @ 40°C	cSt	49.8	45.4	---	---
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#### CONTAMINATION

Water	%	NEG	NEG	---	---
Silicon	ppm	7	7	---	---
Sodium	ppm	5	5	---	---
Potassium	ppm	1	2	---	---



#### WEAR METALS

Iron	ppm	13	19	---	---
Copper	ppm	2	2	---	---
Lead	ppm	<1	0	---	---
Tin	ppm	0	0	---	---
Aluminum	ppm	<1	<1	---	---
Chromium	ppm	0	0	---	---
Molybdenum	ppm	0	0	---	---
Nickel	ppm	0	0	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	<1	---	---
Vanadium	ppm	0	0	---	---



#### ADDITIVES

Calcium	ppm	3525	3700	---	---
Magnesium	ppm	8	8	---	---
Zinc	ppm	1463	1445	---	---
Phosphorus	ppm	1272	1267	---	---
Barium	ppm	0	0	---	---
Boron	ppm	107	103	---	---

#### Diagnosis

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. The fluid was specified as LIEBHERR GEAR BASIC 90 LS, however, a fluid match indicates that this fluid is SAE 75W80 Tractor TDH Fluid. Please confirm the fluid type and grade on your next sample. All component wear rates are normal. There is no indication of any contamination in the fluid. Viscosity of sample indicates oil is within SAE 75W80 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The condition of the fluid is acceptable for the time in service.

Depot: LIEMIS  
 Unique No: 5620215  
 Signed: Kevin Marson  
 Report Date: 10 Aug 2023



### GRAPHS

