

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR R936 048753-1780 - Right Final Drive

Sample No: LH0220967

Oil Type: LIEBHERR GEAR BASIC 90 LS



LIEBHERR EQUIPMENT SOURCE
 4100 CHESTNUT AVENUE
 NEWPORT NEWS, VA
 US 23607
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Sample Information

Sample Number	LH0220967	LH0173883	---	---
Sample Date	18 Apr 2024	01 Jul 2021	---	---
Machine Hours	1977	844	---	---
Oil Hours	0	844	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ABNORMAL	ABNORMAL	---	---



Oil Condition

Visc @ 40°C	cSt	● 178	● 194	---	---
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Contamination

Water	%	NEG	NEG	---	---
Silicon	ppm	● 329	● 336	---	---
Sodium	ppm	● 6	● 8	---	---
Potassium	ppm	● 20	● 15	---	---



Wear Metals

Iron	ppm	● 344	● 451	---	---
Copper	ppm	● 0	● <1	---	---
Lead	ppm	● 0	● 0	---	---
Tin	ppm	● 0	● 0	---	---
Aluminum	ppm	● 72	● 39	---	---
Chromium	ppm	● 9	● 14	---	---
Molybdenum	ppm	● 0	● 1	---	---
Nickel	ppm	● <1	1	---	---
Titanium	ppm	8	6	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	● 3	● 6	---	---
Vanadium	ppm	<1	<1	---	---



Additives

Calcium	ppm	36	● 68	---	---
Magnesium	ppm	● 4	● 5	---	---
Zinc	ppm	● 0	7	---	---
Phosphorus	ppm	● 2399	● 2089	---	---
Barium	ppm	● 0	● 3	---	---
Boron	ppm	● 2	● 20	---	---

Diagnosis

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The condition of the oil is acceptable for the time in service.

Depot: LIEBHERRUS
 Unique No: 11004475
 Signed: Don Baldrige
 Report Date: 01 May 2024



Graphs

