

LIEBHERR

CONSTRUCTION EQUIPMENT



[[YORKTOWN MATERIALS]] LIEBHERR R946 045303-1491 - Swi

Sample No: LH0267619

Oil Type: LIEBHERR GEAR BASIC 90 LS



SAMPLE INFORMATION

Sample Number	LH0267619	---	---	---
Sample Date	21 Sep 2023	---	---	---
Machine Hours	3480	---	---	---
Oil Hours	3480	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

LIEBHERR EQUIPMENT SOURCE

4100 CHESTNUT AVENUE
NEWPORT NEWS, VA
US 23607

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T:
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OIL CONDITION

Visc @ 40°C	cSt	● 221	---	---	---
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CONTAMINATION

Silicon	ppm	● 11	---	---	---
Sodium	ppm	● 1	---	---	---
Potassium	ppm	● <1	---	---	---



WEAR METALS

Iron	ppm	● 1992	---	---	---
Copper	ppm	● 200	---	---	---
Lead	ppm	● <1	---	---	---
Tin	ppm	● 18	---	---	---
Aluminum	ppm	● 2	---	---	---
Chromium	ppm	● 19	---	---	---
Molybdenum	ppm	● 0	---	---	---
Nickel	ppm	● 2	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	<1	---	---	---
Manganese	ppm	● 14	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	● 31	---	---	---
Magnesium	ppm	● 3	---	---	---
Zinc	ppm	● 34	---	---	---
Phosphorus	ppm	● 2504	---	---	---
Barium	ppm	● 0	---	---	---
Boron	ppm	● 1	---	---	---

Diagnosis

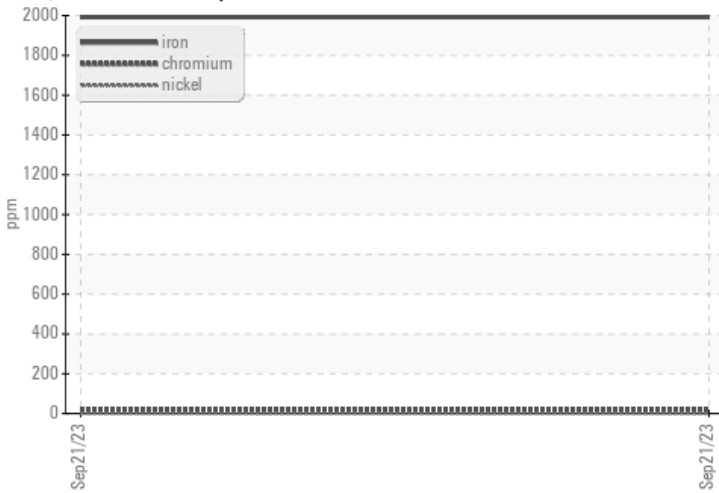
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Gear wear is indicated. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: LIEBHERRUS
Unique No: 10684319
Signed: Angela Borella
Report Date: 10 Oct 2023

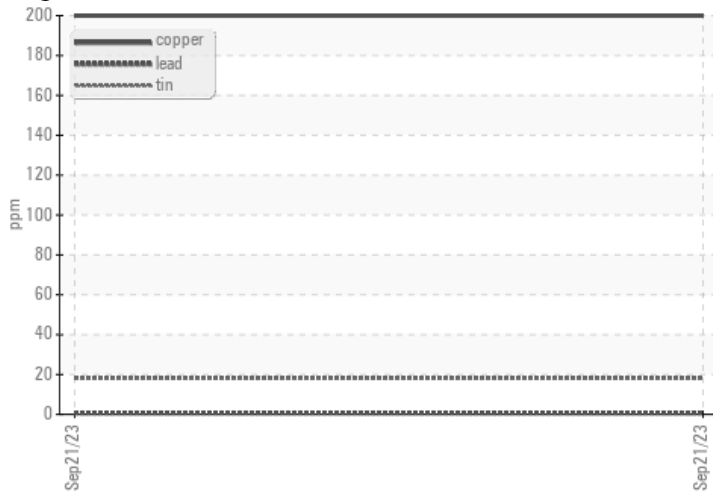


GRAPHS

● Ferrous Alloys



● Non-ferrous Metals



Viscosity @ 40°C

