

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR A934 030815-1007 - Front Left Final Drive

Sample No: LH0243386

Oil Type: GEAR OIL SAE 80W90



DOMTAR PULP AND PAPER

301 POINT BASSE AVE
NEKOOSA, WI
US 54457

Contact: BILL SENN
william.senn@domtar.com
T: (715)675-6900
F: (715)675-9748



SAMPLE INFORMATION

Sample Number	LH0243386	---	---	---
Sample Date	14 Feb 2024	---	---	---
Machine Hours	50198	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	SEVERE	---	---	---



OIL CONDITION

Visc @ 40°C	cSt	73.3	---	---	---
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CONTAMINATION

Water	%	0.116	---	---	---
Silicon	ppm	52	---	---	---
Sodium	ppm	8	---	---	---
Potassium	ppm	4	---	---	---



WEAR METALS

Iron	ppm	955	---	---	---
Copper	ppm	136	---	---	---
Lead	ppm	2	---	---	---
Tin	ppm	1	---	---	---
Aluminum	ppm	11	---	---	---
Chromium	ppm	4	---	---	---
Molybdenum	ppm	3	---	---	---
Nickel	ppm	4	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	11	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	1597	---	---	---
Magnesium	ppm	18	---	---	---
Zinc	ppm	696	---	---	---
Phosphorus	ppm	975	---	---	---
Barium	ppm	<1	---	---	---
Boron	ppm	138	---	---	---

Diagnosis

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Bearing and/or gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The oil viscosity is lower than normal. Confirm oil type. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: DOMWAU
Unique No: 10889363
Signed: Jonathan Hester
Report Date: 26 Feb 2024

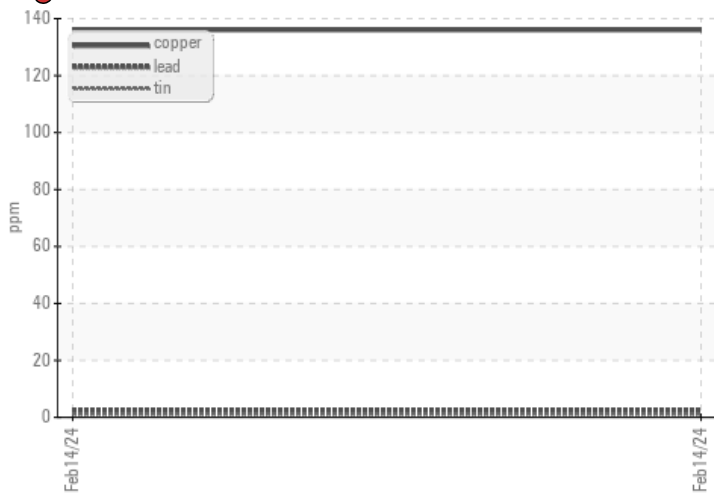


GRAPHS

● Ferrous Alloys



● Non-ferrous Metals



● Viscosity @ 40°C

