LIEBHERR
CONSTRUCTION EQUIPMENT

LIEBHERR A934 030815-1007 - Rear Differential

Sample No: LH0243385

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		**LH0243385**	---	---	---
Sample Date		**14 Feb 2024**	---	---	---
Machine Hours		**50198**	---	---	---
Oil Hours		**0**	---	---	---
Oil Changed		**Not Changd**	---	---	---
Sample Status		**SEVERE**	---	---	---

OIL CONDITION

Visc @ 40°C	cSt	**122**	---	---	---

CONTAMINATION

Water	%	**NEG**	---	---	---
Silicon	ppm	**55**	---	---	---
Sodium	ppm	**3**	---	---	---
Potassium	ppm	**<1**	---	---	---

WEAR METALS

Iron	ppm	**438**	---	---	---
Copper	ppm	**40**	---	---	---
Lead	ppm	**<1**	---	---	---
Tin	ppm	**<1**	---	---	---
Aluminum	ppm	**7**	---	---	---
Chromium	ppm	**2**	---	---	---
Molybdenum	ppm	**1**	---	---	---
Nickel	ppm	**2**	---	---	---
Titanium	ppm	**<1**	---	---	---
Silver	ppm	**0**	---	---	---
Manganese	ppm	**5**	---	---	---
Vanadium	ppm	**0**	---	---	---

ADDITIVES

Calcium	ppm	**298**	---	---	---
Magnesium	ppm	**0**	---	---	---
Zinc	ppm	**153**	---	---	---
Phosphorus	ppm	**1098**	---	---	---
Barium	ppm	**0**	---	---	---
Boron	ppm	**174**	---	---	---

Diagnosis

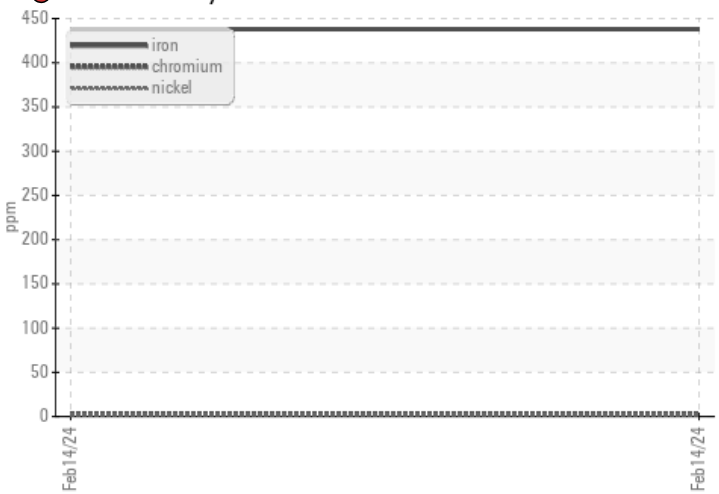
We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.The iron level is severe. Gear wear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

Depot: DOMWAU
Unique No: 10888032
Signed: Sean Felton
Report Date: 22 Feb 2024

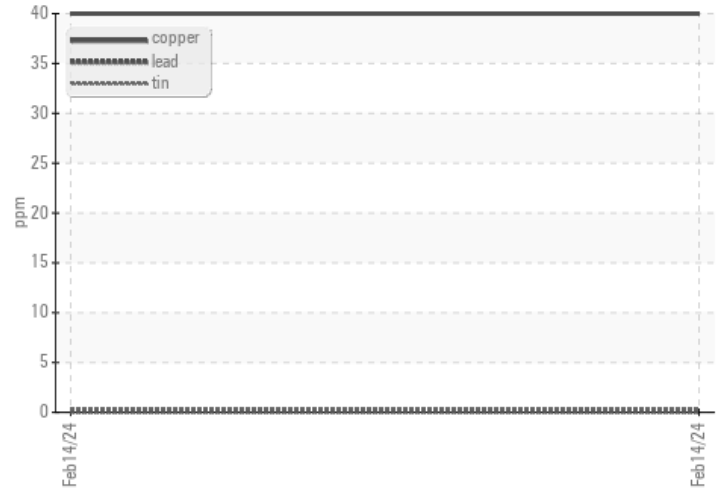
LIEBHERR
CONSTRUCTION EQUIPMENT

GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C