

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR A934 030815-1007 - Front Differential

Sample No: LH0243388

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	LH0243388	---	---	---
Sample Date	14 Feb 2024	---	---	---
Machine Hours	50198	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	ABNORMAL	---	---	---



OIL CONDITION

Visc @ 40°C	cSt	● 131	---	---	---
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CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	● 21	---	---	---
Sodium	ppm	● 3	---	---	---
Potassium	ppm	● 2	---	---	---



WEAR METALS

Iron	ppm	● 215	---	---	---
Copper	ppm	● 147	---	---	---
Lead	ppm	● 4	---	---	---
Tin	ppm	● 1	---	---	---
Aluminum	ppm	● 5	---	---	---
Chromium	ppm	● 2	---	---	---
Molybdenum	ppm	● 1	---	---	---
Nickel	ppm	● 2	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	● 4	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	● 6	---	---	---
Magnesium	ppm	● 0	---	---	---
Zinc	ppm	● 105	---	---	---
Phosphorus	ppm	● 982	---	---	---
Barium	ppm	● 0	---	---	---
Boron	ppm	● 186	---	---	---

Diagnosis

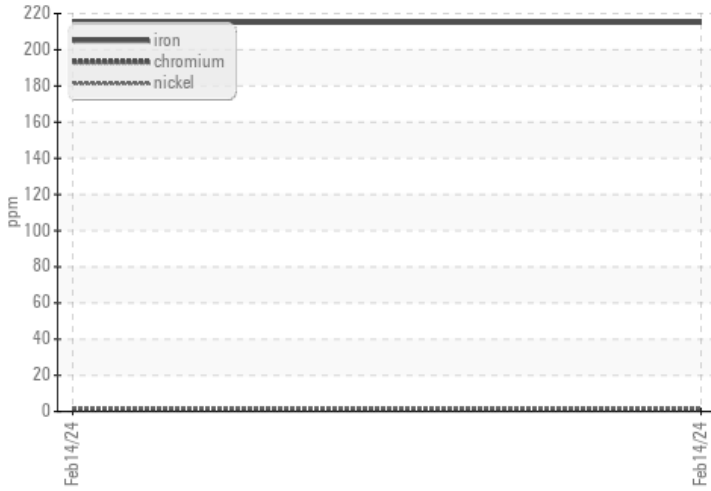
We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor. Bearing and/or gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The condition of the oil is acceptable for the time in service.

Depot: DOMWAU
Unique No: 10889366
Signed: Jonathan Hester
Report Date: 26 Feb 2024

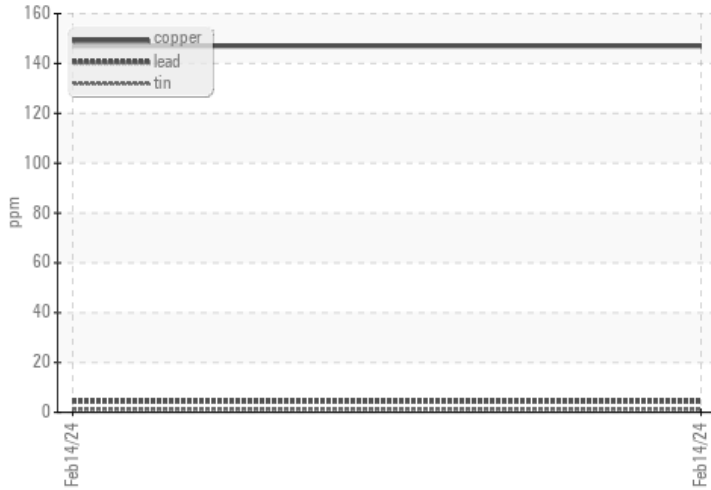


GRAPHS

● Ferrous Alloys



● Non-ferrous Metals



Viscosity @ 40°C

