

LIEBHERR

CONSTRUCTION EQUIPMENT



HITACHI ZW370-6 15586 (S/N 6108) - Front Differential

Sample No: LH0244717

Oil Type: TDTO FLUID SAE 50



SAMPLE INFORMATION

Sample Number	LH0244717	---	---	---
Sample Date	13 Mar 2024	---	---	---
Machine Hours	1271	---	---	---
Oil Hours	1271	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	SEVERE	---	---	---

RECO EQUIPMENT INC

8075 PRODUCTION DRIVE
FLORENCE, KY
US 41042
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OIL CONDITION

Visc @ 40°C	cSt	● 182.5	---	---	---
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CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	● 118	---	---	---
Sodium	ppm	● 8	---	---	---
Potassium	ppm	● <1	---	---	---



WEAR METALS

Iron	ppm	● 2610	---	---	---
Copper	ppm	● 137	---	---	---
Lead	ppm	● 2	---	---	---
Tin	ppm	● 8	---	---	---
Aluminum	ppm	● 7	---	---	---
Chromium	ppm	● 16	---	---	---
Molybdenum	ppm	● 3	---	---	---
Nickel	ppm	● <1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	30	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	● 3610	---	---	---
Magnesium	ppm	● 17	---	---	---
Zinc	ppm	● 1976	---	---	---
Phosphorus	ppm	● 1227	---	---	---
Barium	ppm	● <1	---	---	---
Boron	ppm	● 114	---	---	---

Diagnosis

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. Gear wear is indicated. Moderate concentration of visible metal present. Elemental level of silicon (Si) above normal indicating ingress of seal material. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: LEC0082
Unique No: 10928798
Signed: Doug Bogart
Report Date: 15 Mar 2024

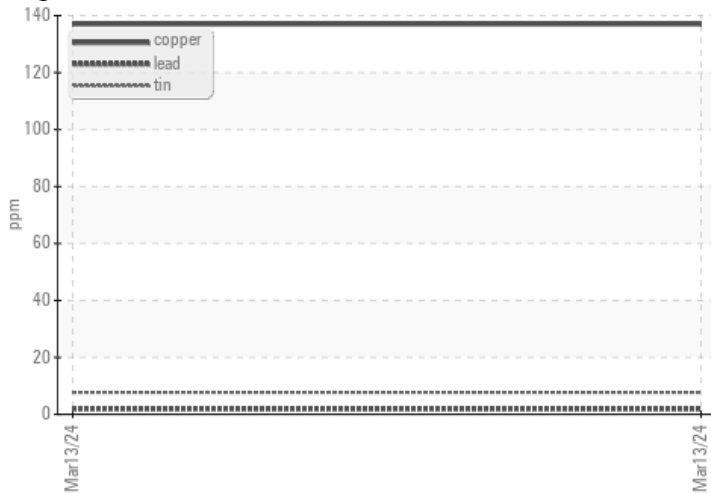


GRAPHS

● Ferrous Alloys



● Non-ferrous Metals



Viscosity @ 40°C

