

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR R945 053481-1866 - Left Final Drive

Sample No: LH0272496

Oil Type: GEAR OIL SAE 80W90



SAMPLE INFORMATION

Sample Number	LH0272496	LH0220710	---	---
Sample Date	02 Feb 2024	29 Sep 2022	---	---
Machine Hours	574	425	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	N/A	---	---
Sample Status	NORMAL	NORMAL	---	---

AMERICAN STATE EQUIPMENT CO.
 2400 NORTH 14TH AVENUE
 WAUSAU, WI
 US 54401
 Contact: CHRIS BARTNIK
 cbartnik@amstate.com
 T: (715)675-6900
 F: (715)675-9748



OIL CONDITION

Visc @ 40°C	cSt	137	188	---	---
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CONTAMINATION

Water	%	NEG	NEG	---	---
Silicon	ppm	63	21	---	---
Sodium	ppm	4	4	---	---
Potassium	ppm	8	4	---	---



WEAR METALS

Iron	ppm	55	33	---	---
Copper	ppm	1	<1	---	---
Lead	ppm	1	0	---	---
Tin	ppm	<1	<1	---	---
Aluminum	ppm	17	9	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	0	0	---	---
Nickel	ppm	<1	0	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	0	<1	---	---
Manganese	ppm	1	1	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	49	16	---	---
Magnesium	ppm	9	2	---	---
Zinc	ppm	33	25	---	---
Phosphorus	ppm	865	1138	---	---
Barium	ppm	4	8	---	---
Boron	ppm	13	0	---	---

Diagnosis

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) GEAR OIL SAE 80W90. Please confirm.

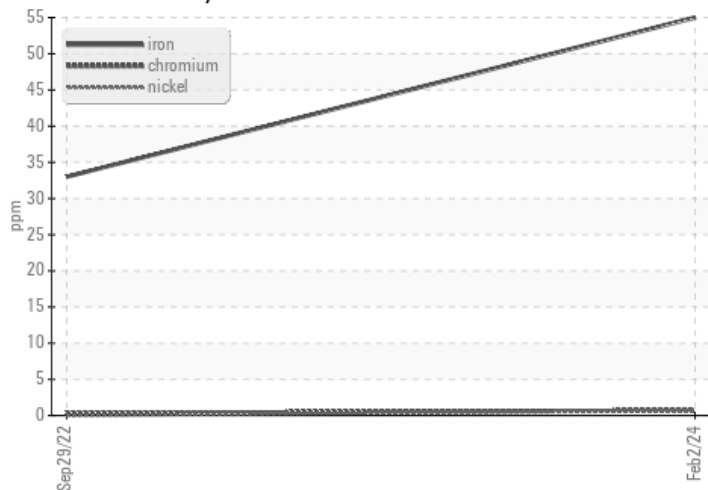
All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: LEC0008
 Unique No: 10884180
 Signed: Wes Davis
 Report Date: 16 Feb 2024

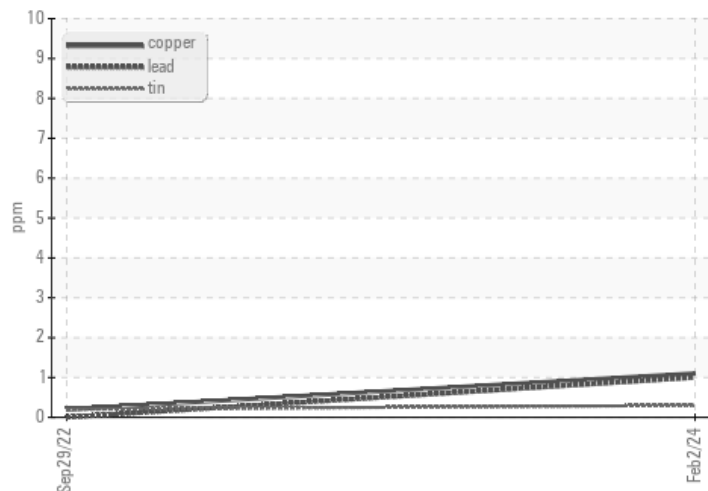


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

