

LIEBHERR

CONSTRUCTION EQUIPMENT



SENNEBOGEN 830E MS17 - Rear Differential

Sample No: LH0244787

Oil Type: GEAR OIL SAE 80W90



SAMPLE INFORMATION

Sample Number	LH0244787	LHMC103983	LHMC103206	---
Sample Date	11 Dec 2023	05 May 2023	20 Feb 2023	---
Machine Hours	7567	6853	5898	---
Oil Hours	0	0	0	---
Oil Changed	Not Chngd	N/A	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

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OIL CONDITION

Visc @ 40°C	cSt	144	145	143	---
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CONTAMINATION

Water	%	NEG	NEG	NEG	---
Silicon	ppm	2	<1	3	---
Sodium	ppm	0	0	2	---
Potassium	ppm	0	<1	<1	---



WEAR METALS

Iron	ppm	52	28	102	---
Copper	ppm	0	<1	1	---
Lead	ppm	0	0	0	---
Tin	ppm	0	0	0	---
Aluminum	ppm	0	0	<1	---
Chromium	ppm	0	<1	<1	---
Molybdenum	ppm	0	<1	<1	---
Nickel	ppm	0	<1	<1	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	<1	1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	31	45	64	---
Magnesium	ppm	<1	1	2	---
Zinc	ppm	3	9	11	---
Phosphorus	ppm	252	315	416	---
Barium	ppm	0	0	0	---
Boron	ppm	10	11	31	---

Diagnosis

Resample at the next service interval to monitor. 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: OSCLAF

Unique No: 10807060

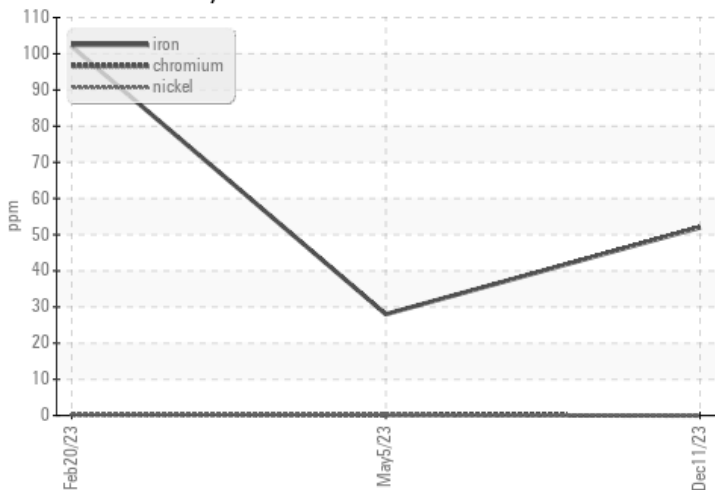
Signed: Jonathan Hester

Report Date: 29 Dec 2023

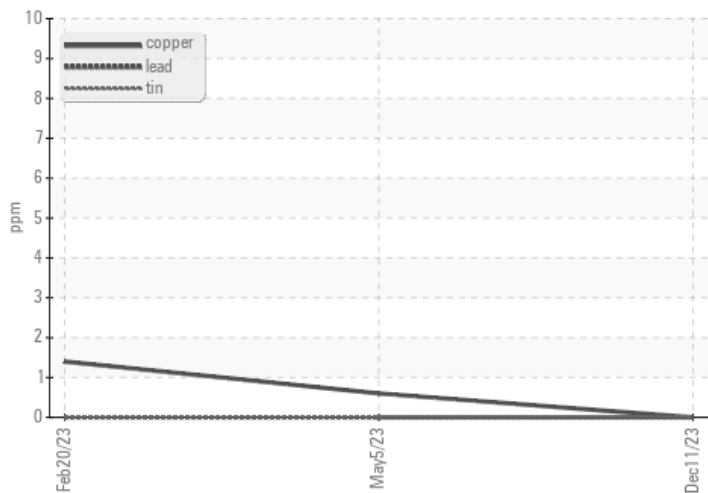


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

