

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH30M 1200-72683 - Splitter Box

Sample No: LH0235766

Oil Type: GEAR OIL SAE 80W90



SAMPLE INFORMATION

Sample Number	LH0235766	LH0217618	LHMC133989	LHMC144963
Sample Date	27 Sep 2023	23 Mar 2023	06 Sep 2022	12 Feb 2021
Machine Hours	14243	13667	12693	11626
Oil Hours	0	1000	500	0
Oil Changed	Changed	Changed	Changed	N/A
Sample Status	SEVERE	ABNORMAL	SEVERE	ABNORMAL

SPARTAN RECYCLING

3071 HOWARD ST
SPARTANBURG, SC
US 29303

Contact: SERVICE MANAGER



OIL CONDITION

Visc @ 40°C	cSt	106	74.0	84.0	95.2
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T:
F:



CONTAMINATION

Silicon	ppm	41	14	17	10
Sodium	ppm	3	<1	<1	2
Potassium	ppm	4	<1	2	0

Diagnosis

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. Confirm oil type. The oil is no longer serviceable as a result of the abnormal and/or severe wear.



WEAR METALS

Iron	ppm	887	115	675	174
Copper	ppm	3	1	2	1
Lead	ppm	0	0	0	1
Tin	ppm	0	0	0	0
Aluminum	ppm	10	2	5	3
Chromium	ppm	12	1	7	1
Molybdenum	ppm	2	1	1	1
Nickel	ppm	1	0	<1	<1
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	9	3	5	2
Vanadium	ppm	<1	0	0	0



ADDITIVES

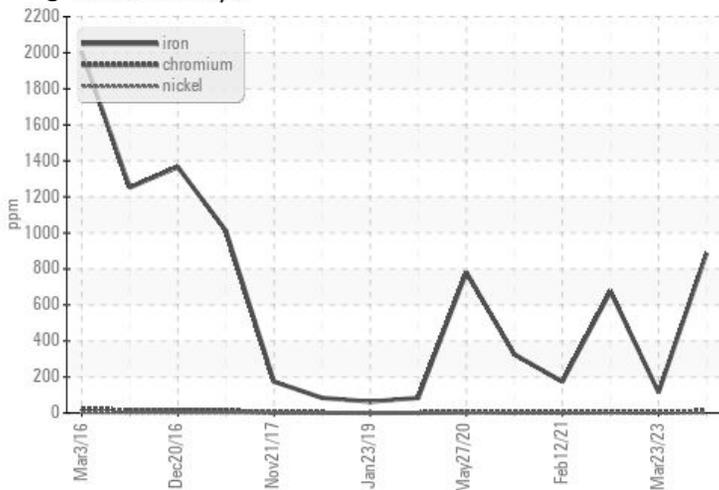
Calcium	ppm	167	53	37	67
Magnesium	ppm	19	13	7	14
Zinc	ppm	72	57	29	53
Phosphorus	ppm	472	336	374	543
Barium	ppm	0	0	0	0
Boron	ppm	2	3	5	9

Depot: SPASPALH
Unique No: 10674678
Signed: Don Baldrige
Report Date: 05 Oct 2023

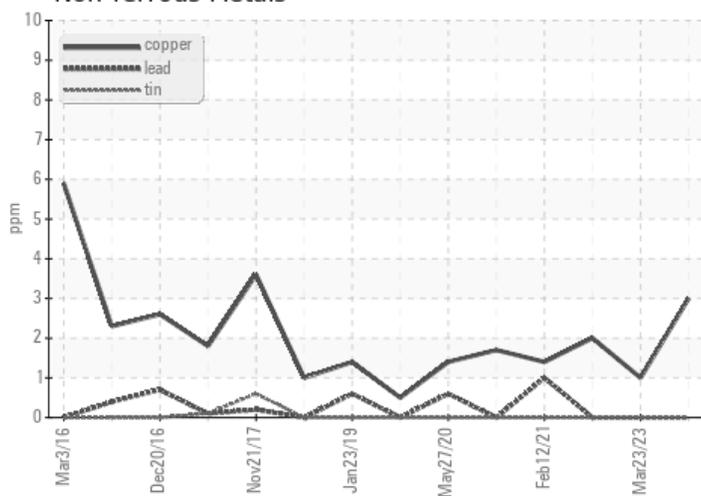


GRAPHS

● Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

