

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH24 1251-1077 21 - Front Differential

Sample No: LH0258002

Oil Type: LIEBHERR 20W40 GEAR PLUS



POTOMAC METALS INC
 410 16TH AVENUE
 RANSON, WV
 US 25438
 Contact: Service Manager



SAMPLE INFORMATION

Sample Number	LH0258002	LH0229671	LH0147675	LH0147731
Sample Date	27 Apr 2023	13 Sep 2022	22 Mar 2022	28 Dec 2021
Machine Hours	8247	6696	5504	4955
Oil Hours	826	1192	1113	0
Oil Changed	Changed	Changed	Changed	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	108	109	109	109
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T:
F:



CONTAMINATION

Silicon	ppm	6	6	6	6
Sodium	ppm	0	0	<1	0
Potassium	ppm	0	0	0	<1

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.



WEAR METALS

Iron	ppm	3	2	4	2
Copper	ppm	0	0	<1	<1
Lead	ppm	0	0	<1	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	0	4	<1	2
Chromium	ppm	0	<1	0	0
Molybdenum	ppm	0	<1	<1	<1
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

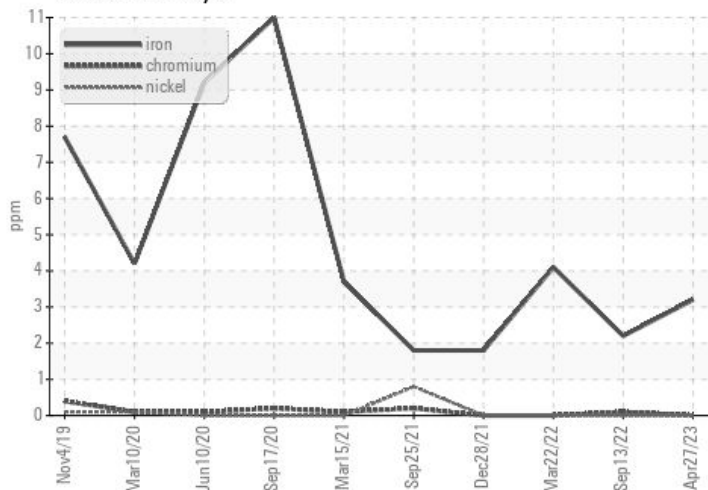
Calcium	ppm	2989	2888	3075	3103
Magnesium	ppm	14	12	12	10
Zinc	ppm	1252	1241	1258	1338
Phosphorus	ppm	1044	999	1093	1175
Barium	ppm	0	0	0	3
Boron	ppm	<1	0	12	10

Depot: POTRAN
 Unique No: 10608973
 Signed: Sean Felton
 Report Date: 21 Aug 2023

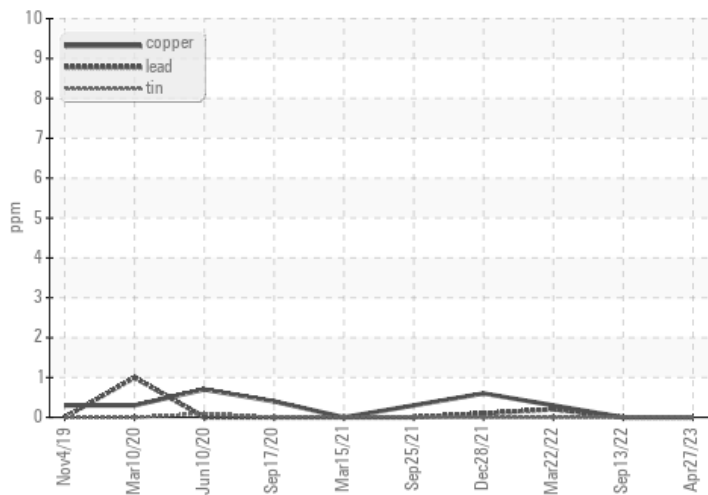


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

