

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH24 1251-107721 - Rear Left Wheel Hub

Sample No: LH0244002

Oil Type: LIEBHERR 20W40 GEAR PLUS



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



SAMPLE INFORMATION

Sample Number	LH0244002	LH0258007	LH0229676	LH0147684
Sample Date	19 Jul 2023	27 Apr 2023	13 Sep 2022	22 Mar 2022
Machine Hours	8881	8247	6696	5504
Oil Hours	634	826	1192	1113
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	NORMAL	ABNORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	190	116	111	110
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T:
F:



CONTAMINATION

Silicon	ppm	2	8	7	6
Sodium	ppm	2	1	0	1
Potassium	ppm	0	0	0	0

Diagnosis

The oil change at the time of sampling has been noted. 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 oil viscosity is higher than normal. Confirm oil type. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	4	6	6	9
Copper	ppm	0	0	<1	1
Lead	ppm	0	0	0	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	0	0	1	<1
Chromium	ppm	0	0	<1	<1
Molybdenum	ppm	0	0	0	<1
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	1	<1
Vanadium	ppm	0	0	<1	0



ADDITIVES

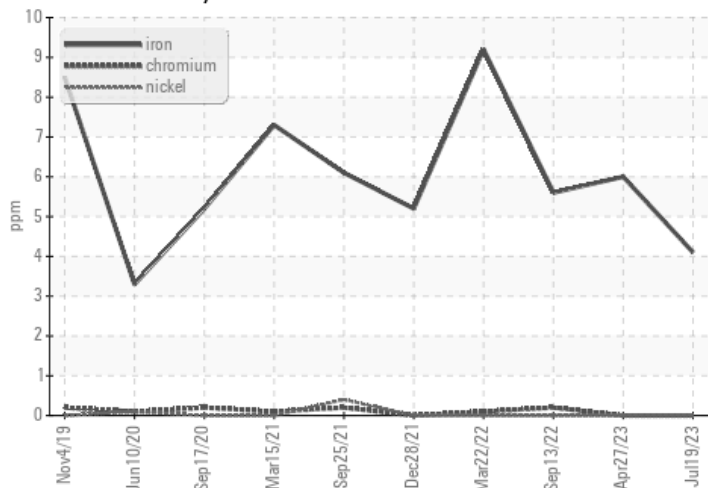
Calcium	ppm	382	3208	3023	3237
Magnesium	ppm	4	13	10	10
Zinc	ppm	162	1296	1279	1303
Phosphorus	ppm	2198	1189	1033	1155
Barium	ppm	0	0	0	0
Boron	ppm	3	62	31	49

Depot: POTRAN
Unique No: 10608959
Signed: Sean Felton
Report Date: 21 Aug 2023

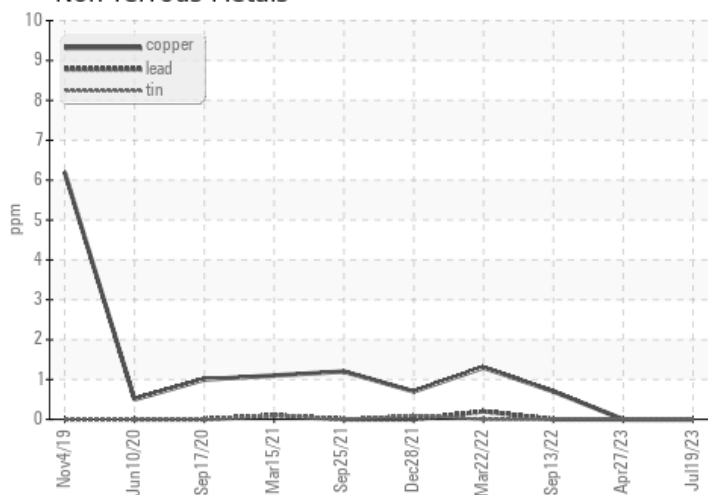


GRAPHS

Ferrous Alloys



Non-ferrous Metals



● Viscosity @ 40°C

