

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH24 1251-1077 21 - Front Differential

Sample No: LH0243997

Oil Type: LIEBHERR 20W40 GEAR PLUS



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



SAMPLE INFORMATION

Sample Number	LH0243997	LH0258002	LH0229671	LH0147675
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	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	186	108	109	109
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CONTAMINATION

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



WEAR METALS

Iron	ppm	2	3	2	4
Copper	ppm	<1	0	0	<1
Lead	ppm	0	0	0	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	0	0	4	<1
Chromium	ppm	0	0	<1	0
Molybdenum	ppm	0	0	<1	<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	0	0



ADDITIVES

Calcium	ppm	204	2989	2888	3075
Magnesium	ppm	3	14	12	12
Zinc	ppm	69	1252	1241	1258
Phosphorus	ppm	2213	1044	999	1093
Barium	ppm	0	0	0	0
Boron	ppm	0	<1	0	12

T:
F:

Diagnosis

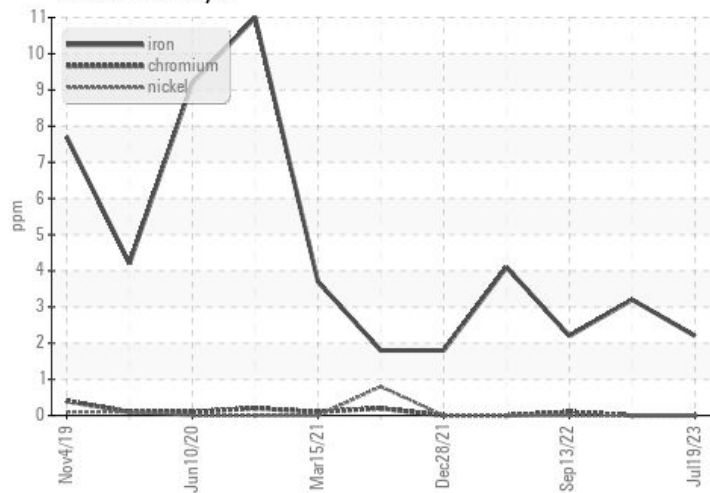
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. Confirm oil type. The condition of the oil is acceptable for the time in service.

Depot: POTRAN
 Unique No: 10608947
 Signed: Don Baldrige
 Report Date: 22 Aug 2023

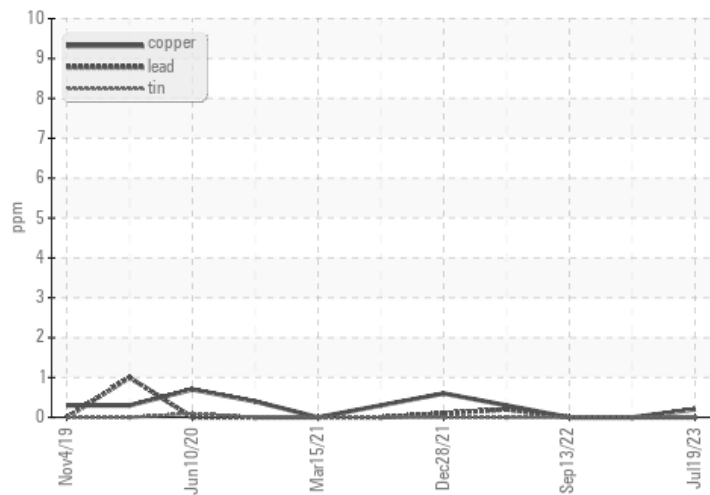


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

