

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L586 032994-461 - Front Differential

Sample No: LH0268489

Oil Type: LIEBHERR GEAR BASIC 90 LS



SAMPLE INFORMATION

Sample Number	LH0268489	LH0264102	LH0220136	LH0229347
Sample Date	20 Dec 2023	06 Jul 2023	28 Feb 2023	12 Jul 2022
Machine Hours	11060	10350	9819	8606
Oil Hours	710	500	1000	500
Oil Changed	Changed	Not Changd	Changed	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

TT & E IRON

1529 WEST GARNER RD
GARNER, NC
US 27529
Contact: MICHAEL STANCIL
culaterprowler@aol.com
T: (919)524-4326
F:



OIL CONDITION

Visc @ 40°C	cSt	188	188	180	181
-------------	-----	-----	-----	-----	-----



CONTAMINATION

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

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	54	49	91	48
Copper	ppm	<1	<1	<1	<1
Lead	ppm	0	0	0	0
Tin	ppm	0	0	0	<1
Aluminum	ppm	0	0	1	<1
Chromium	ppm	0	<1	<1	0
Molybdenum	ppm	0	0	0	0
Nickel	ppm	0	<1	<1	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	<1	0
Manganese	ppm	2	1	2	2
Vanadium	ppm	0	0	0	0



ADDITIVES

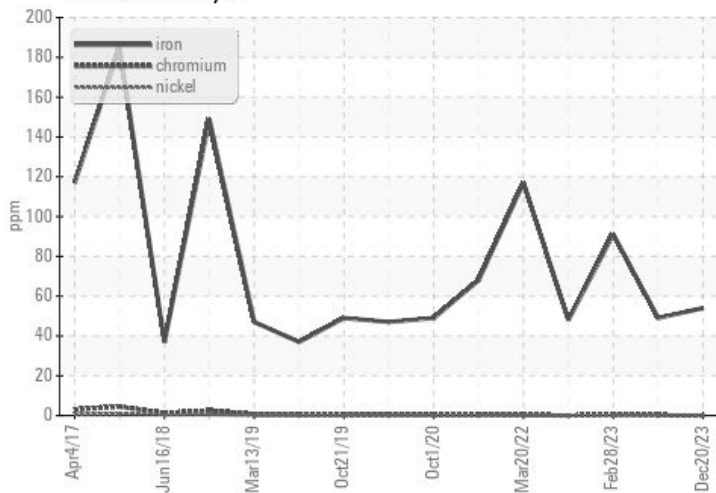
Calcium	ppm	10	8	14	18
Magnesium	ppm	<1	0	1	1
Zinc	ppm	2	5	11	10
Phosphorus	ppm	2263	2282	2242	1981
Barium	ppm	0	0	0	<1
Boron	ppm	2	4	6	9

Depot: TTENEW
Unique No: 10817118
Signed: Don Baldrige
Report Date: 05 Jan 2024

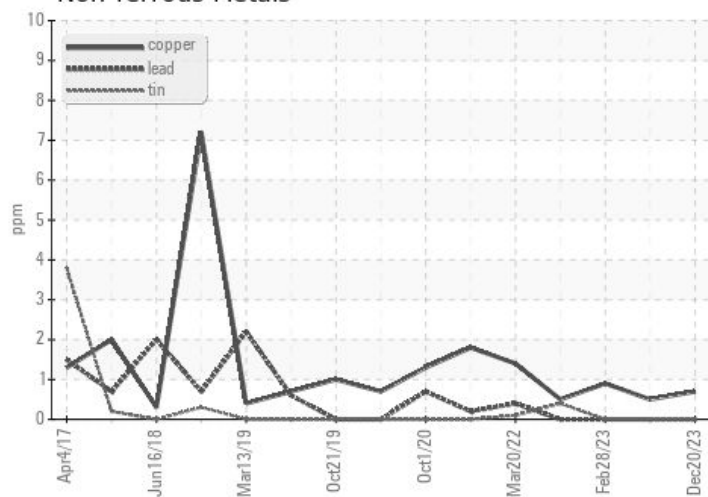


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

