

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L580 050217-1464 - Front Differential

Sample No: LH0258268

Oil Type: LIEBHERR GEAR BASIC 90 LS



SAMPLE INFORMATION

Sample Number	LH0258268	LH0243952	LH0174213	LHMC129372
Sample Date	12 Nov 2023	24 Apr 2023	04 Dec 2020	01 Feb 2019
Machine Hours	5251	5281	1795	527
Oil Hours	0	0	1000	527
Oil Changed	Not Changd	Not Changd	Changed	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL

M&F CONCRETE PRODUCTS CO
 4002 CATLETT RD
 CATLETT, VA
 US 20119
 Contact: Service Manager



OIL CONDITION

Visc @ 40°C	cSt	176	192	175	183.0
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T:
F:



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	7	8	13	16
Sodium	ppm	8	5	5	6
Potassium	ppm	14	1	<1	2

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	137	173	159	153
Copper	ppm	32	66	129	85
Lead	ppm	0	0	<1	<1
Tin	ppm	0	3	4	0
Aluminum	ppm	0	5	<1	<1
Chromium	ppm	1	<1	1	2
Molybdenum	ppm	8	0	<1	0
Nickel	ppm	0	<1	2	2
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	<1	0
Manganese	ppm	2	18	21	28
Vanadium	ppm	<1	0	0	0



ADDITIVES

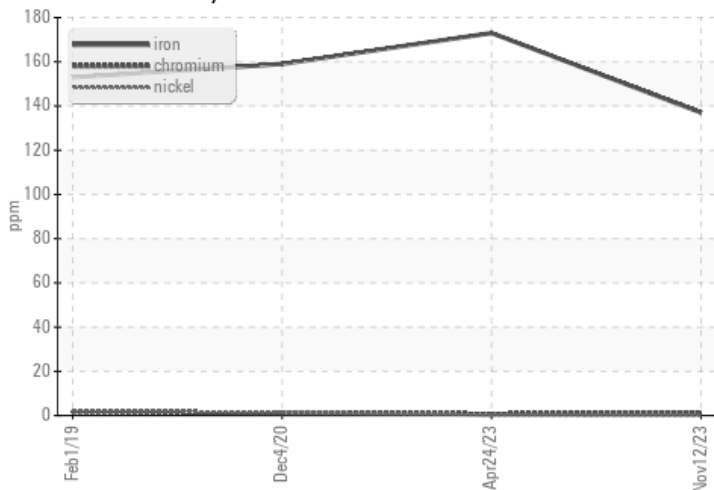
Calcium	ppm	98	29	189	167
Magnesium	ppm	<1	2	1	<1
Zinc	ppm	54	82	75	72
Phosphorus	ppm	2305	2534	2077	1941
Barium	ppm	0	0	0	0
Boron	ppm	2	1	20	5

Depot: MECCAT
Unique No: 10778737
Signed: Don Baldrige
Report Date: 11 Dec 2023

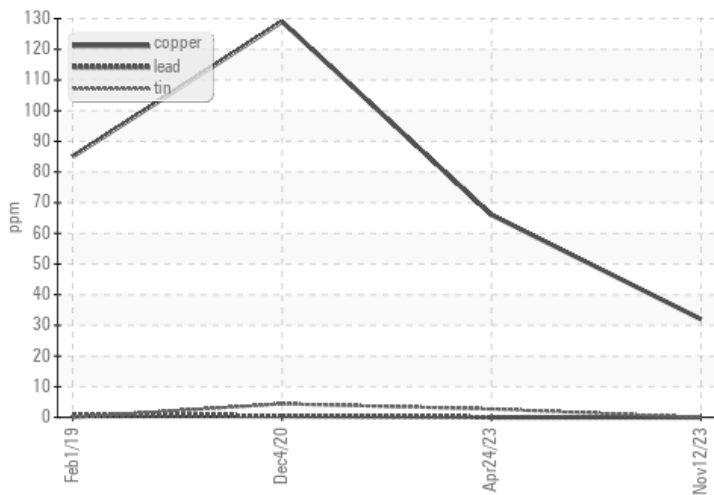


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

