

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH30 097842-1253 - Swing Drive

Sample No: LH0258248

Oil Type: LIEBHERR GEAR BASIC 90 LS



SAMPLE INFORMATION

Sample Number	LH0258248	LH0230018	LH0207619	LH0217021
Sample Date	08 Nov 2023	08 Dec 2022	27 Apr 2022	13 Jan 2022
Machine Hours	12403	10567	9357	8725
Oil Hours	500	0	0	0
Oil Changed	Changed	Not Changd	Not Changd	Changed
Sample Status	NORMAL	SEVERE	ABNORMAL	SEVERE

MIDWEST METALS CORP
 40 WINDHURST WAY
 SHELBYVILLE, KY
 US 40065
 Contact: JIMMY RENFROE
 jimmyr@mwmcorp.com
 T: (502)633-4211
 F: (502)633-5212



OIL CONDITION

Visc @ 40°C	cSt	182	238	197	278
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CONTAMINATION

Water	%	---	1.76	0.556	3.25
Silicon	ppm	<1	5	3	5
Sodium	ppm	3	3	3	4
Potassium	ppm	2	0	0	4



WEAR METALS

Iron	ppm	78	773	672	1254
Copper	ppm	23	164	130	213
Lead	ppm	0	1	0	3
Tin	ppm	1	3	2	5
Aluminum	ppm	<1	0	2	5
Chromium	ppm	<1	8	6	12
Molybdenum	ppm	0	<1	<1	3
Nickel	ppm	<1	1	<1	4
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	<1	0
Manganese	ppm	1	6	5	10
Vanadium	ppm	0	0	0	<1



ADDITIVES

Calcium	ppm	7	38	45	16
Magnesium	ppm	<1	3	3	3
Zinc	ppm	36	29	30	37
Phosphorus	ppm	2096	2193	2812	2648
Barium	ppm	<1	0	0	0
Boron	ppm	4	3	3	15

Diagnosis

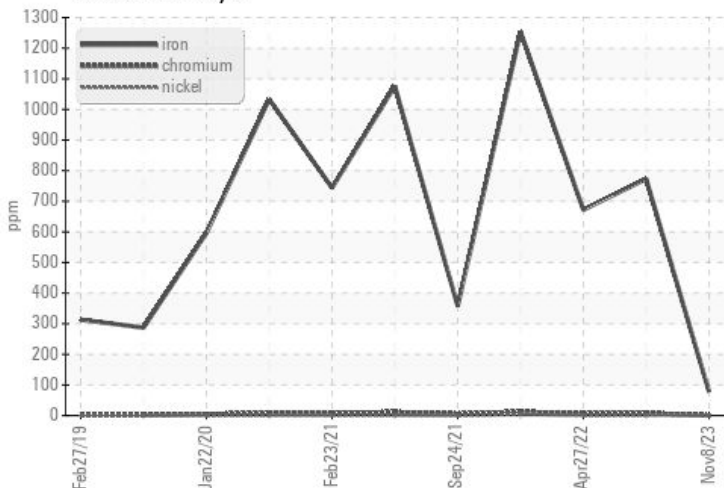
Resample at the next service interval to monitor. All component wear rates are normal. The water content is negligible. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: MIDSHELH
Unique No: 10742997
Signed: Don Baldrige
Report Date: 19 Nov 2023

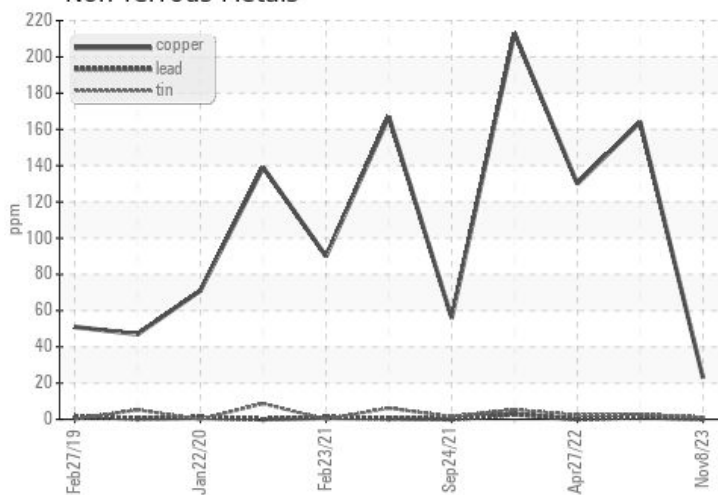


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

