

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### [AMR-Cheyenne [GABY IRON]] LIEBHERR LH60M 1204-69983 - Dies

Sample No: LH0217323

Oil Type: DIESEL ENGINE OIL SAE 5W40



**FINKBINER EQUIPMENT CO.**  
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### Sample Information

Sample Number	LH0217323	LH0254403	LH0220088	DJJ0002892
Sample Date	16 Apr 2024	20 Apr 2023	04 Jan 2023	26 Jun 2020
Machine Hours	19148	17642	17121	15094
Oil Hours	500	500	500	250
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	SEVERE	ABNORMAL	NORMAL



### Oil Condition

Visc @ 100°C	cSt	13.3	12.3	13.7	12.7
Base Number (BN)	mg KOH/g	6.3	6.4	7.0	---
Oxidation (PA)	%	73	69	73	63



### Contamination

Water	%	NEG	NEG	NEG	NEG
Soot %	%	1.3	1.2	1.2	1
Nitration (PA)	%	85	97	95	68
Sulfation (PA)	%	68	65	65	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	0.6	9.1	<1.0	<1.0
Silicon	ppm	6	8	6	8
Sodium	ppm	1	3	2	2
Potassium	ppm	2	2	1	0



### Wear Metals

Iron	ppm	18	18	19	10
Copper	ppm	4	28	112	1
Lead	ppm	0	2	2	0
Tin	ppm	0	<1	<1	0
Aluminum	ppm	3	3	4	4
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	20	19	35	98
Nickel	ppm	0	<1	0	0
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	<1	0	0



### Additives

Calcium	ppm	1330	1251	1503	1210
Magnesium	ppm	539	551	536	468
Zinc	ppm	883	793	926	710
Phosphorus	ppm	734	667	722	618
Barium	ppm	0	0	0	<1
Boron	ppm	20	31	42	218

### Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Depot: LEC0033  
 Unique No: 10993762  
 Signed: Wes Davis  
 Report Date: 25 Apr 2024



### Graphs

