

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR A934C 061188-1419 - Splitter Box

Sample No: LH0253886

Oil Type: HARTLAND LS 80W90



**NORTHERN METAL RECYCLING**  
 2800 PACIFIC ST N  
 MINNEAPOLIS, MN  
 US 55411  
 Contact: CHRIS GILMER  
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 T: (612)305-7338  
 F:



#### SAMPLE INFORMATION

Sample Number	LH0253886	LH0253907	LH0236043	LH0220615
Sample Date	21 Sep 2023	13 Jul 2023	23 Nov 2022	04 Apr 2022
Machine Hours	27222	26744	25468	23959
Oil Hours	500	500	500	1000
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



#### OIL CONDITION

Visc @ 40°C	cSt	139	147	148	171
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#### CONTAMINATION

Element	ppm	2	3	3	3
Silicon	ppm	2	3	3	3
Sodium	ppm	14	32	27	3
Potassium	ppm	2	2	<1	7



#### WEAR METALS

Element	ppm	26	46	22	19
Iron	ppm	26	46	22	19
Copper	ppm	<1	1	1	<1
Lead	ppm	0	0	0	0
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	<1	<1	1
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	<1	<1	<1	<1
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	2	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Element	ppm	19	53	29	63
Calcium	ppm	19	53	29	63
Magnesium	ppm	2	5	5	6
Zinc	ppm	14	56	30	41
Phosphorus	ppm	880	1298	1050	2357
Barium	ppm	0	0	0	0
Boron	ppm	9	20	17	73

#### 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.

Depot: NORMINLH  
 Unique No: 10728447  
 Signed: Sean Felton  
 Report Date: 08 Nov 2023

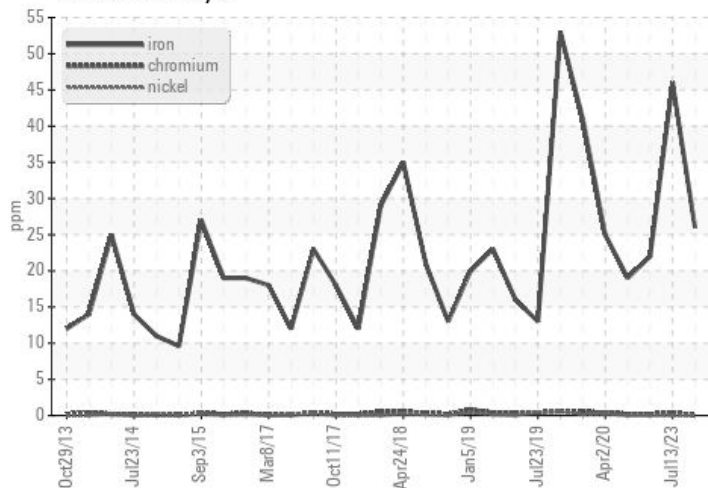
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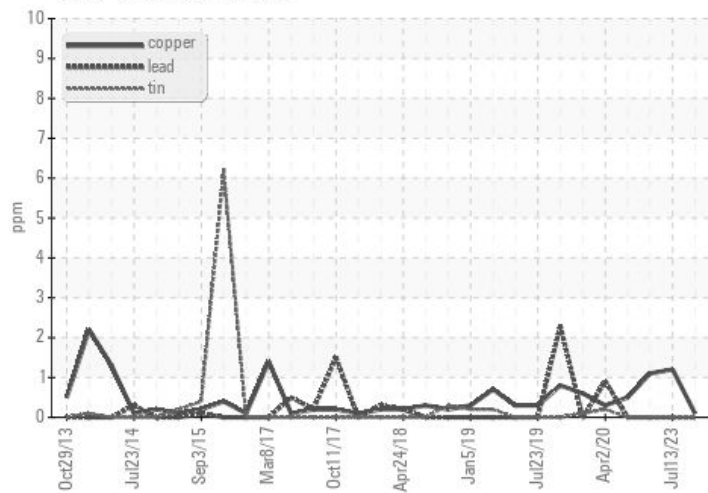


### GRAPHS

#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C

