

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH30 120113-1253 - Swing Drive

Sample No: LH0264787

Oil Type: CHEVRON DELO GEAR ESI OIL 80W90



#### Sample Information

Sample Number	LH0264787	LH0264329	LH0220995	LH0200604
Sample Date	21 Mar 2024	27 Jul 2023	28 Nov 2022	28 Feb 2022
Machine Hours	10009	9001	7984	5989
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	MARGINAL	NORMAL	NORMAL

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#### Oil Condition

Visc @ 40°C	cSt	126	135	137	149
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#### Contamination

Water	%	NEG	0.188	NEG	NEG
Silicon	ppm	1	2	3	2
Sodium	ppm	2	1	1	0
Potassium	ppm	3	0	0	0



#### Wear Metals

Iron	ppm	447	413	802	378
Copper	ppm	12	12	21	10
Lead	ppm	0	0	0	0
Tin	ppm	<1	<1	2	2
Aluminum	ppm	0	0	1	2
Chromium	ppm	4	4	8	4
Molybdenum	ppm	0	1	2	1
Nickel	ppm	1	<1	<1	0
Titanium	ppm	<1	<1	0	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	2	4	5	2
Vanadium	ppm	0	<1	0	0



#### Additives

Calcium	ppm	29	43	92	64
Magnesium	ppm	5	7	12	10
Zinc	ppm	28	29	53	37
Phosphorus	ppm	823	898	778	821
Barium	ppm	0	0	0	0
Boron	ppm	8	12	25	13

#### Diagnosis

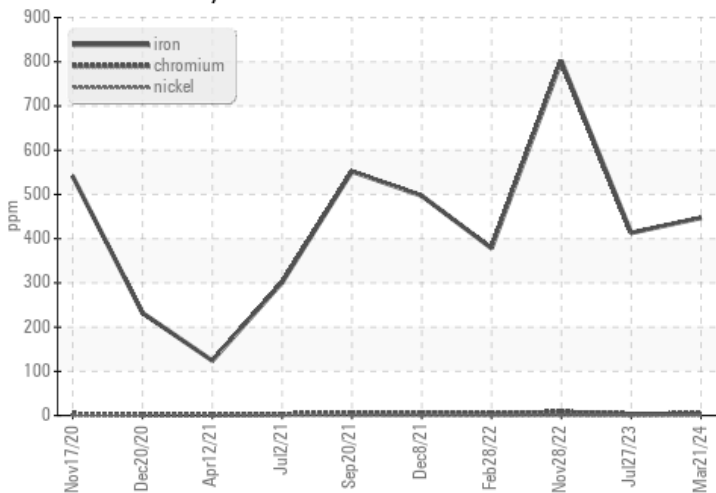
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: LEC0008  
 Unique No: 10955351  
 Signed: Jonathan Hester  
 Report Date: 04 Apr 2024

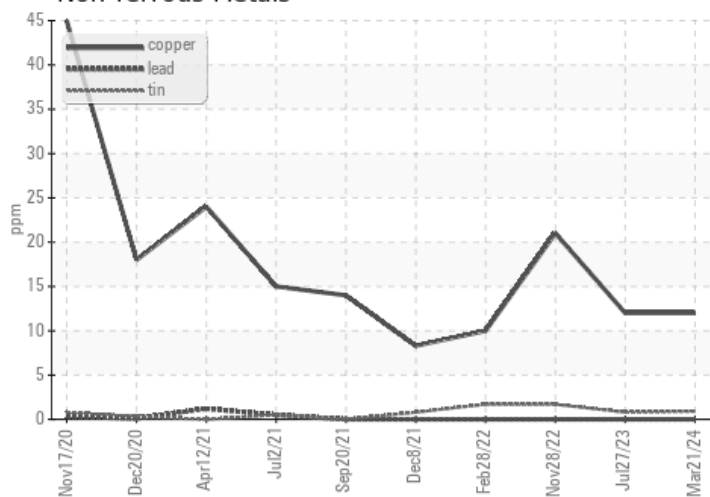


### Graphs

#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C

