

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH60C1528-98445 - Swing Drive

Sample No: LH0272838

Oil Type: LIEBHERR GEAR BASIC 90 LS



SAMPLE INFORMATION

Sample Number	LH0272838	LH0267362	LH0229885	LHMC116263
Sample Date	20 Dec 2023	05 Sep 2023	27 Sep 2022	10 May 2018
Machine Hours	12491	11098	10049	985
Oil Hours	573	969	1994	985
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	ABNORMAL	MARGINAL	NORMAL

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 Contact: JAMIE
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OIL CONDITION

Visc @ 40°C	cSt	369	306	121	344.6
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CONTAMINATION

Water	%	0.866	0.286	0.313	NEG
Silicon	ppm	2	2	2	<1
Sodium	ppm	0	0	1	5
Potassium	ppm	<1	<1	4	5



WEAR METALS

Iron	ppm	149	470	231	25
Copper	ppm	34	82	23	15
Lead	ppm	<1	0	0	0
Tin	ppm	<1	2	<1	<1
Aluminum	ppm	2	1	4	0
Chromium	ppm	<1	4	3	<1
Molybdenum	ppm	0	<1	0	0
Nickel	ppm	<1	1	<1	<1
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	3	2	1
Vanadium	ppm	0	0	<1	0



ADDITIVES

Calcium	ppm	65	2	0	17
Magnesium	ppm	2	<1	2	1
Zinc	ppm	31	7	0	7
Phosphorus	ppm	1232	1091	467	1101
Barium	ppm	7	0	0	0
Boron	ppm	2	2	0	12

Diagnosis

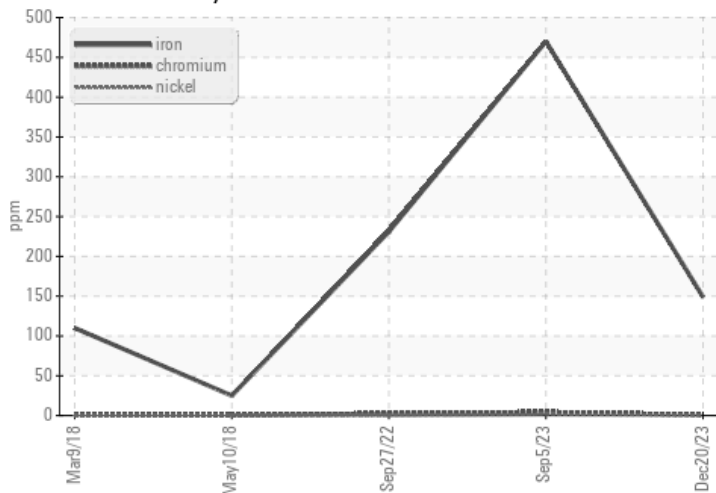
We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a high concentration of water present in the oil. The condition of the oil is acceptable for the time in service.

Depot: DAVLORVA
 Unique No: 10859960
 Signed: Jonathan Hester
 Report Date: 05 Feb 2024

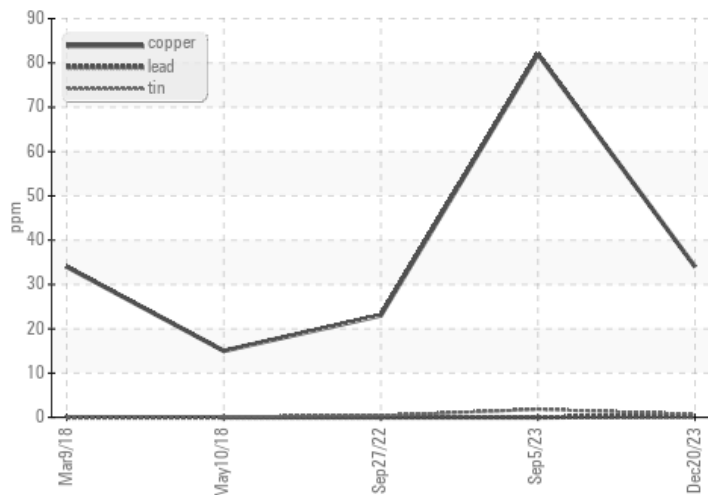


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

