

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR HS885HD 184713 - 1 Winch

Sample No: LH0257975

Oil Type: LIEBHERR GEAR BASIC 90 LS



FINKBINER EQUIPMENT CO.
 15 W 400 N FRONTAGE RD
 BURR RIDGE, IL
 US 60527
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SAMPLE INFORMATION

Sample Number	LH0257975	LHMC119863	---	---
Sample Date	08 May 2023	22 Aug 2022	---	---
Machine Hours	10527	9000	---	---
Oil Hours	500	30	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ABNORMAL	NORMAL	---	---



OIL CONDITION

Visc @ 40°C	cSt	154	158	---	---
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CONTAMINATION

Silicon	ppm	7	2	---	---
Sodium	ppm	<1	<1	---	---
Potassium	ppm	2	0	---	---



WEAR METALS

Iron	ppm	358	31	---	---
Copper	ppm	3	<1	---	---
Lead	ppm	0	0	---	---
Tin	ppm	0	0	---	---
Aluminum	ppm	1	<1	---	---
Chromium	ppm	3	0	---	---
Molybdenum	ppm	<1	0	---	---
Nickel	ppm	2	0	---	---
Titanium	ppm	<1	0	---	---
Silver	ppm	0	<1	---	---
Manganese	ppm	2	<1	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	24	19	---	---
Magnesium	ppm	4	0	---	---
Zinc	ppm	60	23	---	---
Phosphorus	ppm	1131	956	---	---
Barium	ppm	0	<1	---	---
Boron	ppm	111	38	---	---

Diagnosis

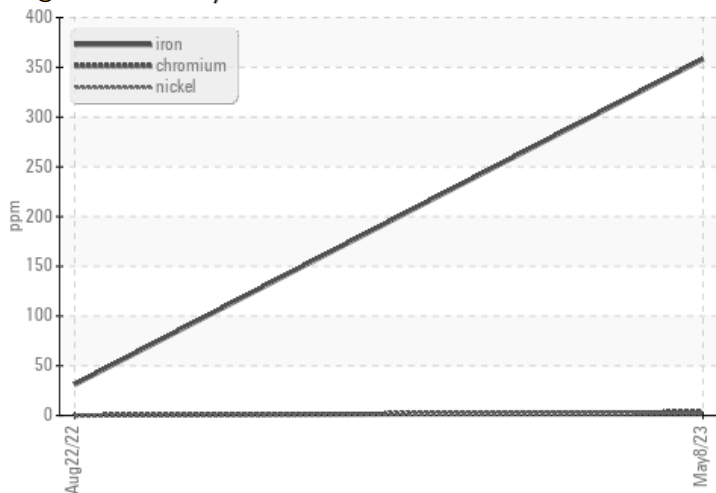
The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. Gear wear is indicated. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: LEC0033
 Unique No: 10495998
 Signed: Jonathan Hester
 Report Date: 02 Jun 2023

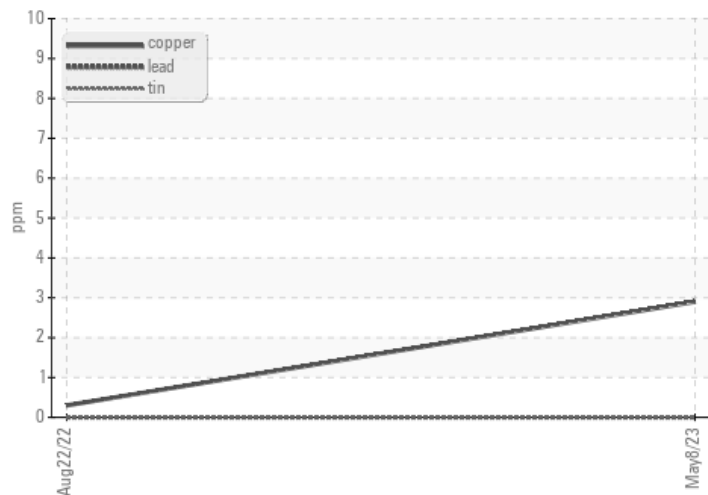


GRAPHS

● Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

