

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH40M 1215-106088 - Swing Drive

Sample No: LH0272337

Oil Type: LIEBHERR GEAR BASIC 90 LS



Sample Information

Sample Number	LH0272337	---	---	---
Sample Date	06 Jun 2024	---	---	---
Machine Hours	12076	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	SEVERE	---	---	---

STUFF RECYCLING
 6169 LEXINGTON ROAD
 WINCHESTER, KY
 US 40391
 Contact: Service Manager



Oil Condition

Visc @ 40°C	cSt	● 226	---	---	---
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T:
F:



Contamination

Water	%	● 0.994	---	---	---
Silicon	ppm	● 39	---	---	---
Sodium	ppm	● 7	---	---	---
Potassium	ppm	● <1	---	---	---

Diagnosis

We advise that you check for the source of water entry. We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. The iron level is severe. The copper level is severe. Gear wear is indicated. Bearing and/or bushing wear is indicated. Elemental level of silicon (Si) above normal indicating ingress of seal material. There is a moderate concentration of water present in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.



Wear Metals

Iron	ppm	● 10335	---	---	---
Copper	ppm	● 3047	---	---	---
Lead	ppm	● <1	---	---	---
Tin	ppm	● 124	---	---	---
Aluminum	ppm	● 2	---	---	---
Chromium	ppm	● 114	---	---	---
Molybdenum	ppm	● 6	---	---	---
Nickel	ppm	● 23	---	---	---
Titanium	ppm	● 0	---	---	---
Silver	ppm	● 0	---	---	---
Manganese	ppm	● 92	---	---	---
Vanadium	ppm	● 0	---	---	---



Additives

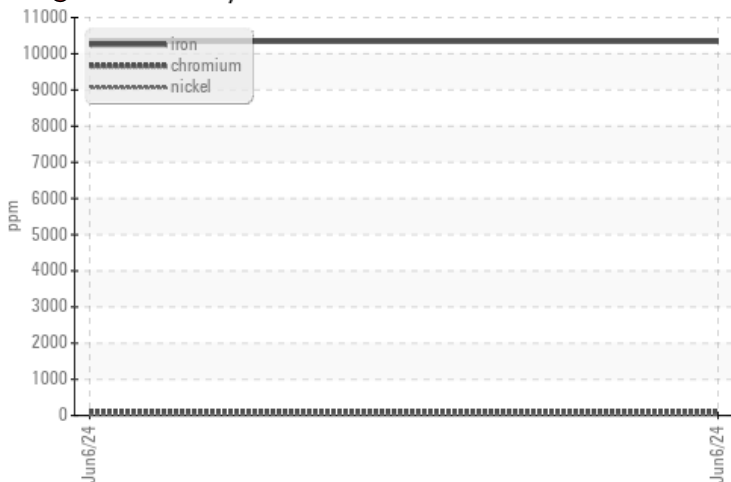
Calcium	ppm	● 43	---	---	---
Magnesium	ppm	● 33	---	---	---
Zinc	ppm	● 353	---	---	---
Phosphorus	ppm	● 1898	---	---	---
Barium	ppm	● 4	---	---	---
Boron	ppm	● 29	---	---	---

Depot: STUWIN
 Unique No: 11076867
 Signed: Sean Felton
 Report Date: 17 Jun 2024



Graphs

● Ferrous Alloys



● Non-ferrous Metals



Viscosity @ 40°C

