

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR R924C 033240-1055 - Left Final Drive

Sample No: LHMC132005

Oil Type: LIEBHERR GEAR BASIC 90 LS



SAMPLE INFORMATION

Sample Number	LHMC132005	LHMC114408	LHMC73504	LHMC83240
Sample Date	16 May 2023	11 Apr 2018	16 May 2017	12 Sep 2016
Machine Hours	8779	5567	4564	3502
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Not Changd	Changed
Sample Status	SEVERE	ABNORMAL	ABNORMAL	ABNORMAL

OZINGA BROS INC

19001 OLD LAGRANDE RD, SUITE 300
MOKENA, IL
US 60448
Contact: TOM KONIECZNY
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T: (847)344-1443
F:



OIL CONDITION

Visc @ 40°C	cSt	89.0	119.7	128.7	127.5
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CONTAMINATION

Water	%	3.16	---	0.447	---
Silicon	ppm	157	119	74	30
Sodium	ppm	11	4	3	3
Potassium	ppm	13	7	2	6



WEAR METALS

Iron	ppm	733	393	209	231
Copper	ppm	41	24	17	38
Lead	ppm	2	<1	2	<1
Tin	ppm	4	<1	0	4
Aluminum	ppm	36	19	13	6
Chromium	ppm	16	6	4	4
Molybdenum	ppm	4	0	0	0
Nickel	ppm	3	1	<1	<1
Titanium	ppm	3	1	<1	<1
Silver	ppm	0	<1	0	0
Manganese	ppm	9	5	2	4
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	434	232	145	60
Magnesium	ppm	82	46	26	6
Zinc	ppm	302	36	29	50
Phosphorus	ppm	963	1796	1689	1598
Barium	ppm	0	1	<1	0
Boron	ppm	104	224	205	180

Diagnosis

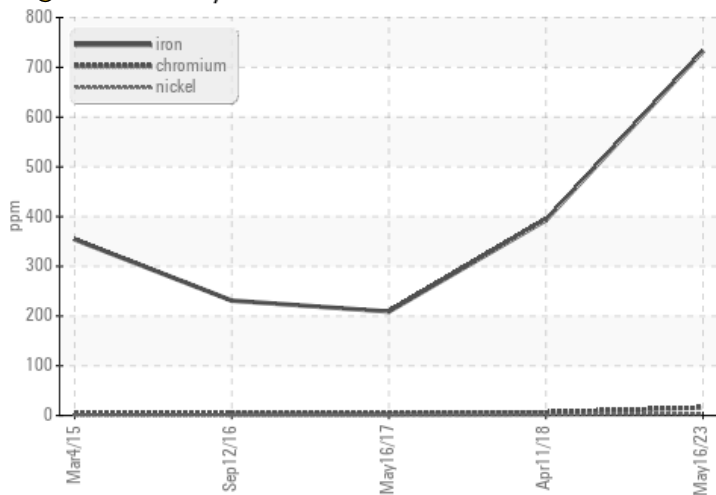
We advise that you check all areas where dirt can enter the system. We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. There is a very high concentration of water present in the oil. The oil viscosity is lower than normal. The oil is no longer serviceable due to the presence of contaminants.

Depot: OZIMOKLH
Unique No: 10493219
Signed: Don Baldrige
Report Date: 31 May 2023

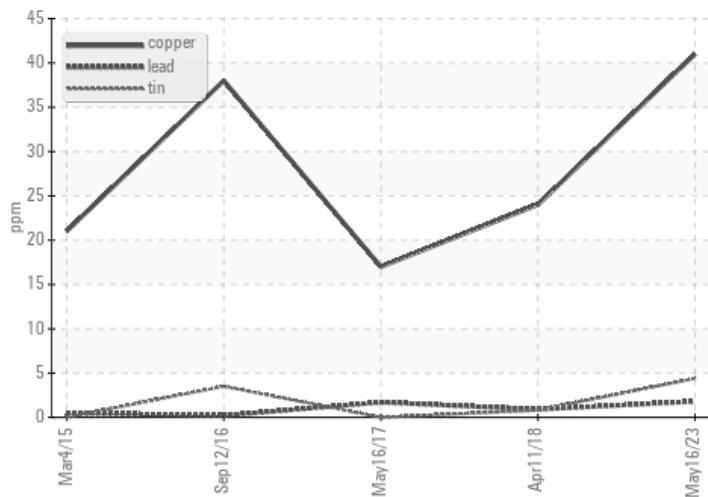


GRAPHS

● Ferrous Alloys



Non-ferrous Metals



● Viscosity @ 40°C

