

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 1203-88008 - Front Left Wheel Hub

Sample No: LH0272185

Oil Type: LIEBHERR GEAR BASIC 90 LS



JR VINAGRO
2208 PLAINFIELD PIKE
JOHNSTON, RI
US 02919
Contact: Service Manager

T:
F:



SAMPLE INFORMATION

Sample Number	LH0272185	LH0229245	LH0207308	LH0184646
Sample Date	01 Feb 2024	20 Jul 2022	11 Nov 2021	28 Jun 2021
Machine Hours	7000	7000	5159	4041
Oil Hours	7000	1841	500	1000
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	179	171	163	140



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<1	3	3	12
Sodium	ppm	13	15	18	18
Potassium	ppm	0	0	1	<1

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.



WEAR METALS

Iron	ppm	40	51	49	100
Copper	ppm	2	3	5	13
Lead	ppm	0	0	0	<1
Tin	ppm	0	0	0	<1
Aluminum	ppm	0	<1	<1	2
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	0	<1	<1	2
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	<1
Silver	ppm	0	1	<1	<1
Manganese	ppm	1	1	1	2
Vanadium	ppm	0	0	0	0



ADDITIVES

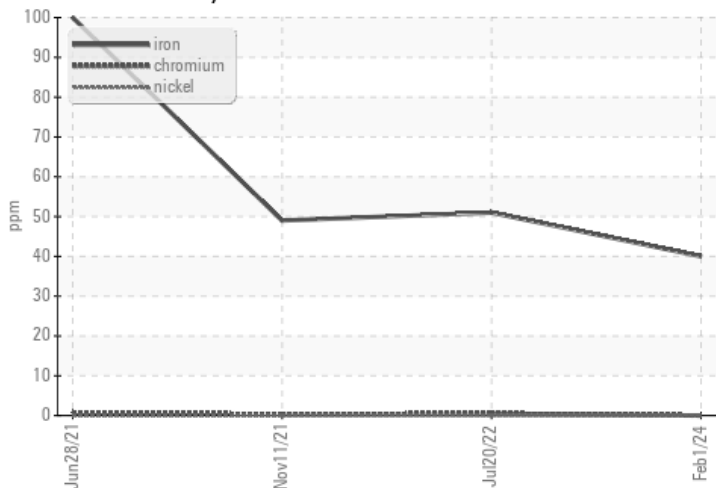
Calcium	ppm	34	60	115	254
Magnesium	ppm	<1	<1	1	3
Zinc	ppm	19	30	26	50
Phosphorus	ppm	2316	2196	2264	2104
Barium	ppm	0	0	0	0
Boron	ppm	<1	3	23	20

Depot: JRVJOH
Unique No: 10871844
Signed: Sean Felton
Report Date: 12 Feb 2024

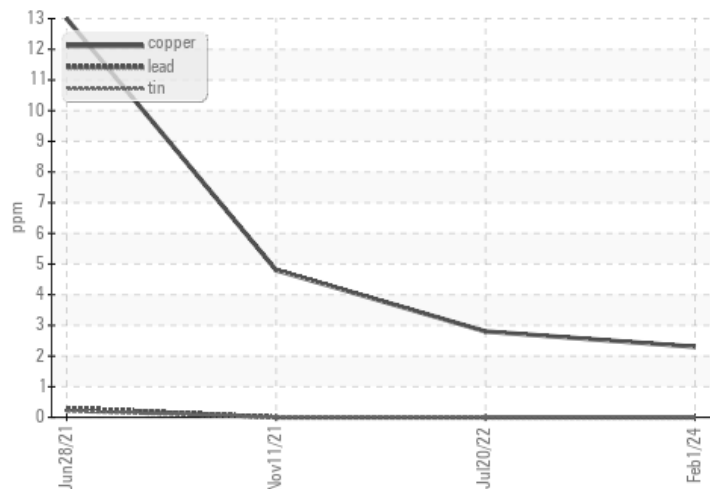


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

