

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 1203-88008 - Rear Differential

Sample No: LH0272183

Oil Type: LIEBHERR GEAR BASIC 90 LS



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



SAMPLE INFORMATION

Sample Number	LH0272183	LH0229238	LH0207359	LH0184648
Sample Date	01 Feb 2024	20 Jul 2022	11 Nov 2021	27 Jun 2021
Machine Hours	7000	7000	5159	4041
Oil Hours	7000	1841	459	1000
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	184	176	173	174

T:
F:



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<1	<1	<1	4
Sodium	ppm	6	5	9	13
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	82	12	13	38
Copper	ppm	3	3	3	17
Lead	ppm	0	0	0	0
Tin	ppm	0	0	0	<1
Aluminum	ppm	0	<1	1	<1
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	0	<1	<1
Manganese	ppm	2	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

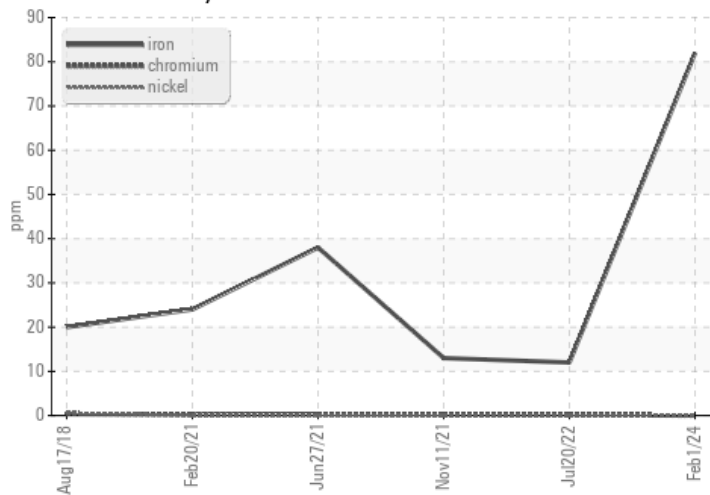
Calcium	ppm	68	21	47	116
Magnesium	ppm	1	0	1	3
Zinc	ppm	28	10	18	24
Phosphorus	ppm	2329	2283	2365	2264
Barium	ppm	0	0	0	0
Boron	ppm	<1	5	29	26

Depot: JRVJOH
Unique No: 10871849
Signed: Sean Felton
Report Date: 12 Feb 2024

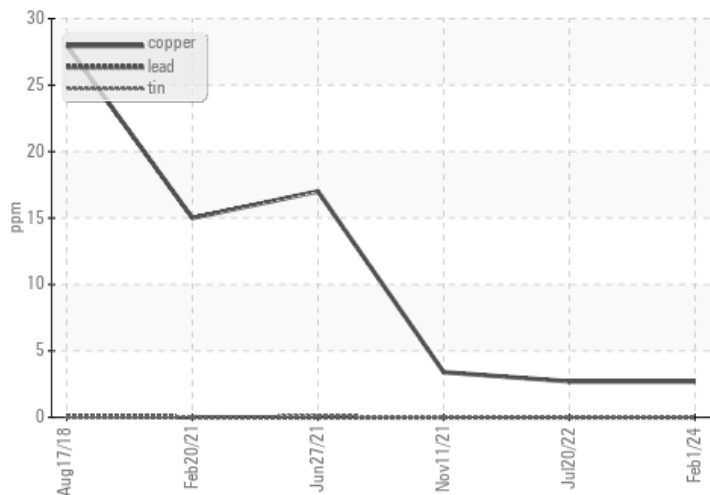


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

