

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L586 065499-1761- Front Differential

Sample No: LH0268337

Oil Type: LIEBHERR GEAR BASIC 90 LS



SAMPLE INFORMATION

Sample Number	LH0268337	LH0258502	LH0229263	LH0217467
Sample Date	07 Feb 2024	24 Aug 2023	24 Mar 2023	11 Jul 2022
Machine Hours	6246	3987	3987	2017
Oil Hours	2259	3987	1970	2017
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	ATTENTION	NORMAL	NORMAL

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



OIL CONDITION

Visc @ 40°C	cSt	192	42.4	195	190
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T:
F:



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	3	13	3	3
Sodium	ppm	1	4	0	0
Potassium	ppm	0	3	1	0

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	69	17	63	137
Copper	ppm	36	4	50	92
Lead	ppm	0	7	0	0
Tin	ppm	2	<1	2	3
Aluminum	ppm	0	4	0	<1
Chromium	ppm	<1	2	<1	1
Molybdenum	ppm	0	0	0	<1
Nickel	ppm	0	0	0	0
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	2	<1	3	8
Vanadium	ppm	0	<1	0	0



ADDITIVES

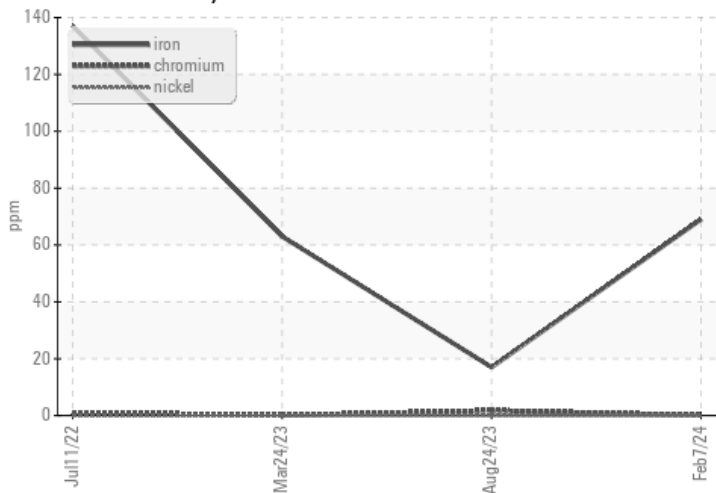
Calcium	ppm	19	1711	12	29
Magnesium	ppm	<1	3	<1	0
Zinc	ppm	30	755	22	79
Phosphorus	ppm	2330	626	2430	1989
Barium	ppm	0	0	0	0
Boron	ppm	0	1	<1	<1

Depot: JRVJOH
Unique No: 10873868
Signed: Don Baldrige
Report Date: 13 Feb 2024

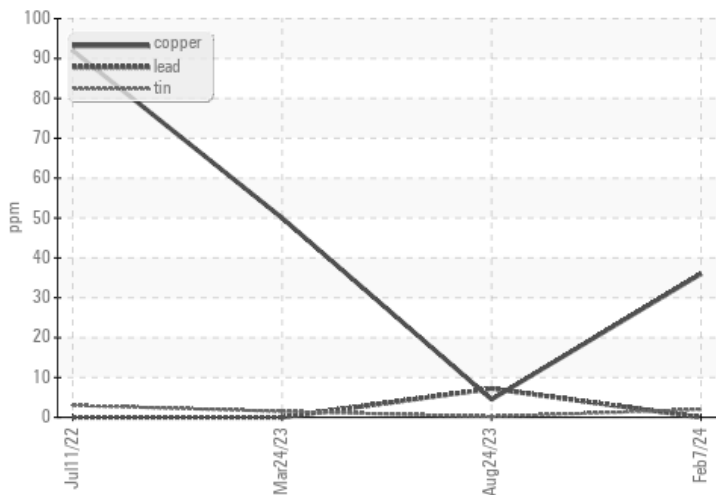


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

