

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 1203-88008 - Transmission

Sample No: LH0272189

Oil Type: LIEBHERR MOTOROIL 10W-40



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

T:
F:



SAMPLE INFORMATION

Sample Number	LH0272189	LH0229243	LH0207356	LH0184649
Sample Date	01 Feb 2024	20 Jul 2022	11 Nov 2021	28 Jun 2021
Machine Hours	10000	7000	5159	4041
Oil Hours	3000	1841	459	1000
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	ABNORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	65.0	64.6	72.8	60.6
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	5	5	2	4
Sodium	ppm	4	5	9	16
Potassium	ppm	<1	0	<1	2



WEAR METALS

Iron	ppm	15	19	22	34
Copper	ppm	14	23	33	52
Lead	ppm	0	<1	<1	<1
Tin	ppm	<1	1	1	2
Aluminum	ppm	1	2	2	3
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	6	10	22	<1
Nickel	ppm	0	0	<1	0
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	1	<1
Manganese	ppm	5	4	8	13
Vanadium	ppm	0	0	<1	<1



ADDITIVES

Calcium	ppm	1621	2974	1885	2378
Magnesium	ppm	725	291	565	341
Zinc	ppm	882	978	904	964
Phosphorus	ppm	824	854	786	870
Barium	ppm	0	0	0	0
Boron	ppm	229	202	121	115

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.

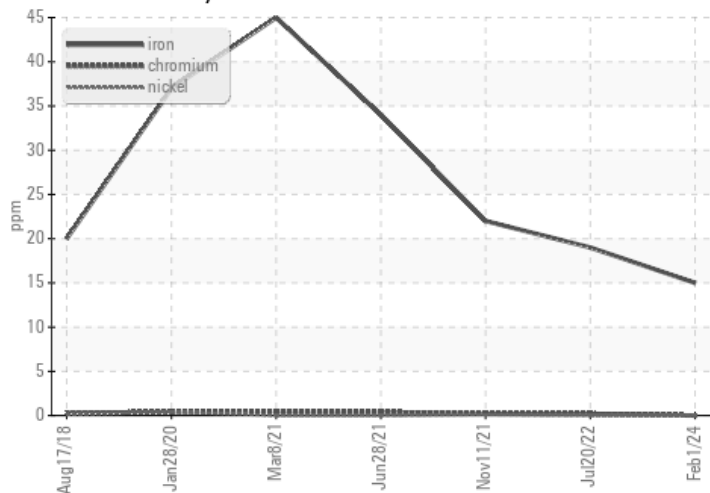
Depot: JRVJOH
Unique No: 10871851
Signed: Sean Felton
Report Date: 12 Feb 2024

Submitted By: MIKE MACKINNON

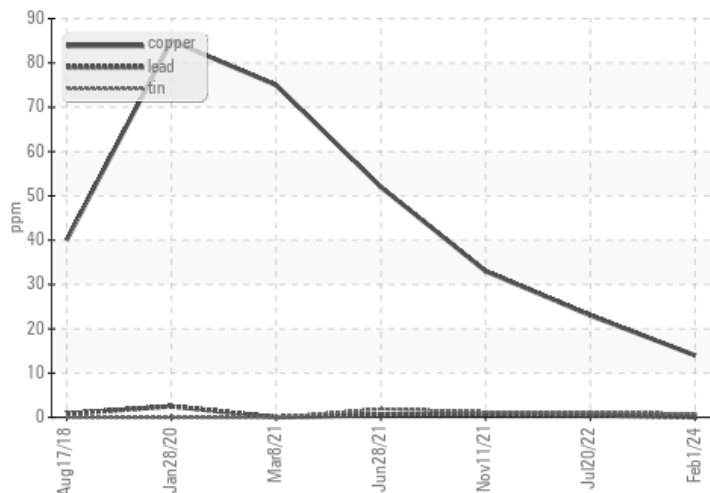


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

