

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 1216-121548 - Pump Drive

Sample No: LH0263980

Oil Type: GEAR OIL LS 80W90



AMERICAN STATE EQUIPMENT CO.
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SAMPLE INFORMATION

Sample Number	LH0263980	LH0243402	LH0263853	LH0236121
Sample Date	18 Jan 2024	05 Oct 2023	18 Jul 2023	20 Jan 2023
Machine Hours	3594	2969	2422	1172
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	116	119	121	149
		●	●	●	●



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	● 0	● <1	● <1	● 1
Sodium	ppm	● 1	● <1	● 2	● <1
Potassium	ppm	● 0	● <1	● 2	● 2



WEAR METALS

Iron	ppm	● 4	● 7	● 6	● 12
Copper	ppm	● 0	● <1	● 0	● <1
Lead	ppm	● 0	● 0	● 0	● 0
Tin	ppm	● <1	● 0	● <1	● 0
Aluminum	ppm	● <1	● 0	● 0	● 0
Chromium	ppm	● 0	● 0	● 0	● 0
Molybdenum	ppm	● 0	● 0	● <1	● <1
Nickel	ppm	● <1	● 0	● 0	● 0
Titanium	ppm	<1	<1	<1	0
Silver	ppm	<1	0	0	0
Manganese	ppm	● <1	● 0	● <1	● 1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	● 57	● 53	● 84	● 38
Magnesium	ppm	● 6	● 3	● 3	● 3
Zinc	ppm	● 40	● 32	● 31	● 65
Phosphorus	ppm	● 837	● 834	● 774	● 1128
Barium	ppm	● 0	● 0	● 0	● 0
Boron	ppm	0	0	6	● 3

Diagnosis

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) GEAR OIL LS 80W90. Please confirm.

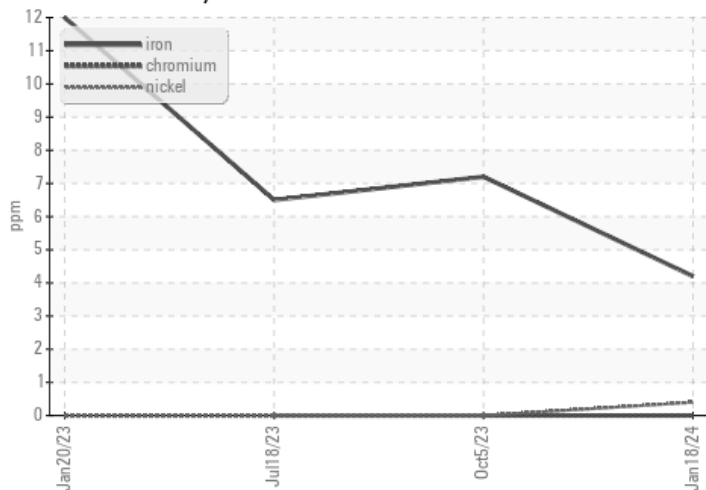
All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: LEC0008
 Unique No: 10856300
 Signed: Wes Davis
 Report Date: 31 Jan 2024

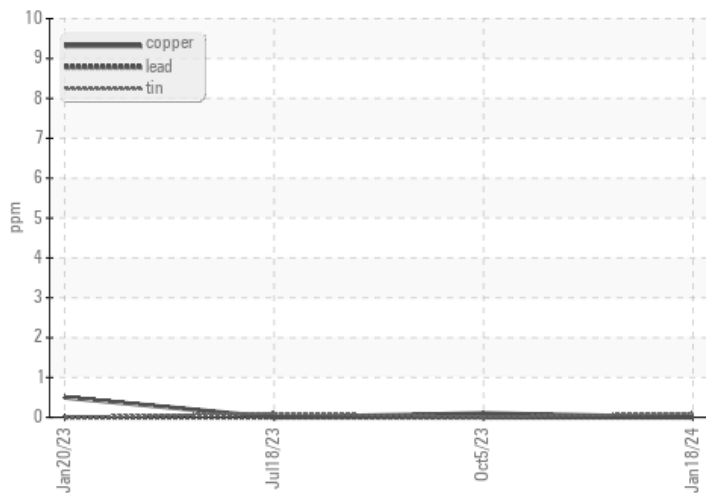


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

