LIEBHERR
CONSTRUCTION EQUIPMENT

LIEBHERR LH50M 1216-108671 - Swing Drive

Sample No: LH0258759

Oil Type: GEAR OIL SAE 80W90

AMERICAN STATE EQUIPMENT CO.
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WAUSAU, WI
US 54401
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SAMPLE INFORMATION

Sample Number		**LH0258759**	LH0263997	LH0243418	LH0254781
Sample Date		**23 Feb 2024**	14 Dec 2023	05 Sep 2023	12 Apr 2023
Machine Hours		**20036**	19125	17864	16979
Oil Hours		**0**	0	0	0
Oil Changed		**Changed**	Changed	Changed	Not Changd
Sample Status		**NORMAL**	NORMAL	NORMAL	ABNORMAL

OIL CONDITION

Visc @ 40°C	cSt	**126**	130	125	136

CONTAMINATION

Water	%	**NEG**	NEG	NEG	NEG
Silicon	ppm	**1**	2	2	5
Sodium	ppm	**2**	<1	<1	<1
Potassium	ppm	**2**	0	<1	0

WEAR METALS

Iron	ppm	**160**	368	437	1396
Copper	ppm	**5**	13	14	22
Lead	ppm	**0**	0	0	0
Tin	ppm	**<1**	<1	0	0
Aluminum	ppm	**<1**	0	0	3
Chromium	ppm	**1**	4	4	18
Molybdenum	ppm	**0**	0	0	2
Nickel	ppm	**<1**	<1	<1	2
Titanium	ppm	**0**	<1	0	<1
Silver	ppm	**0**	0	<1	0
Manganese	ppm	**2**	3	4	11
Vanadium	ppm	**0**	0	0	<1

ADDITIVES

Calcium	ppm	**32**	23	44	49
Magnesium	ppm	**6**	3	12	8
Zinc	ppm	**18**	16	24	35
Phosphorus	ppm	**869**	965	730	694
Barium	ppm	**1**	0	0	0
Boron	ppm	**0**	1	2	13

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 SAE 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: 10915862
Signed: Wes Davis
Report Date: 08 Mar 2024

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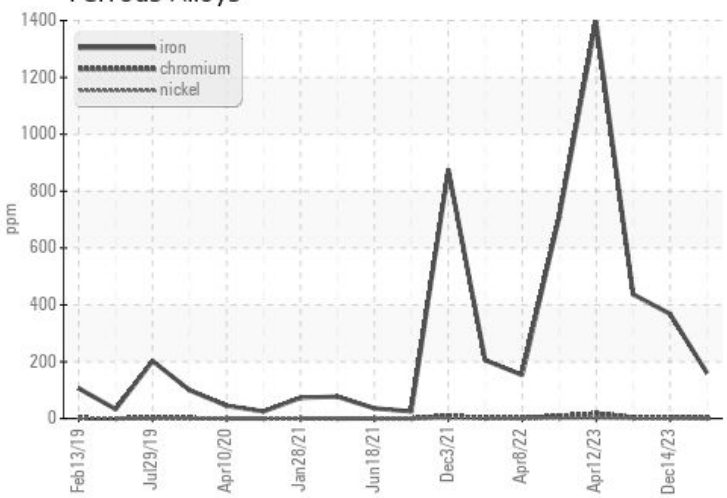
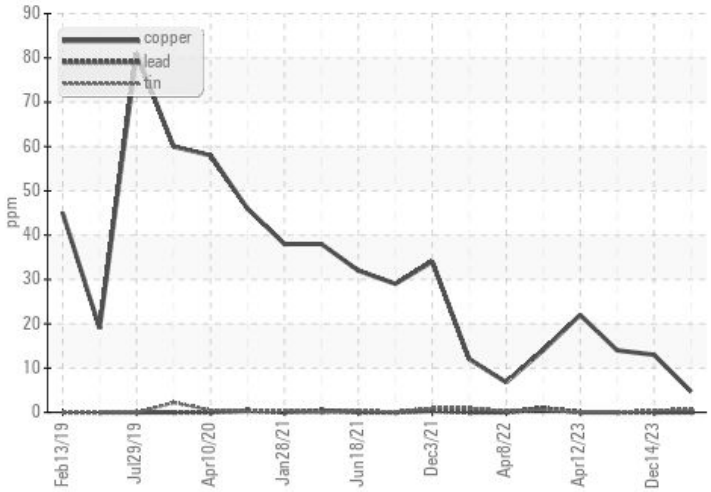
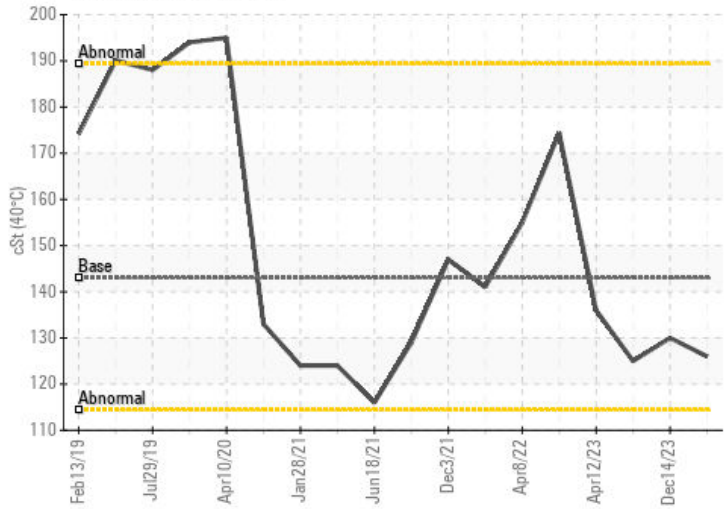
GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C