

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 1216-116574 - Splitter Box

Sample No: LH0272156

Oil Type: GEAR OIL LS 80W90



SAMPLE INFORMATION

Sample Number	LH0272156	LH0171134	LH0171120	LH0171106
Sample Date	20 Dec 2023	28 Aug 2023	27 Apr 2023	27 Jan 2023
Machine Hours	19776	17910	16726	14930
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	NORMAL	ATTENTION	NORMAL

BOISE WHITE PAPER

3RD AVE AND HWY 11, 400 2ND ST
INTERNATIONAL FALLS, MN
US 56649
Contact: GARY MANN
garymann@packagingcorp.com
T:
F: (218)285-5860



OIL CONDITION

Visc @ 40°C	cSt	63.9	64.7	77.6	135



CONTAMINATION

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



WEAR METALS

Iron	ppm	13	14	20	10
Copper	ppm	2	<1	0	2
Lead	ppm	0	0	0	0
Tin	ppm	<1	0	0	<1
Aluminum	ppm	0	<1	<1	0
Chromium	ppm	0	0	0	<1
Molybdenum	ppm	1	<1	1	<1
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	50	41	55	31
Magnesium	ppm	3	2	7	2
Zinc	ppm	205	168	182	78
Phosphorus	ppm	658	649	810	1372
Barium	ppm	0	0	0	<1
Boron	ppm	12	38	53	229

Diagnosis

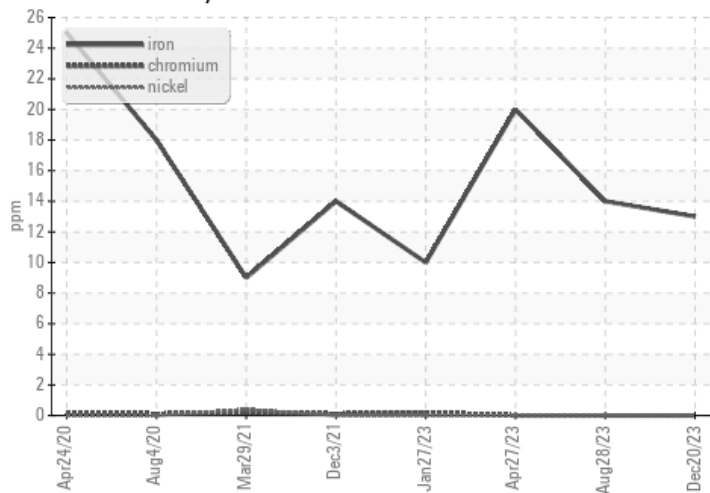
The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. Confirm oil type.

Depot: BOIINT
Unique No: 10844611
Signed: Don Baldrige
Report Date: 24 Jan 2024

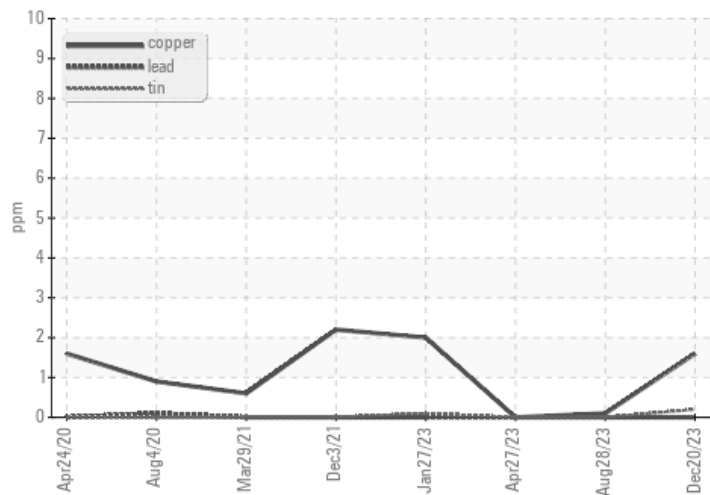


GRAPHS

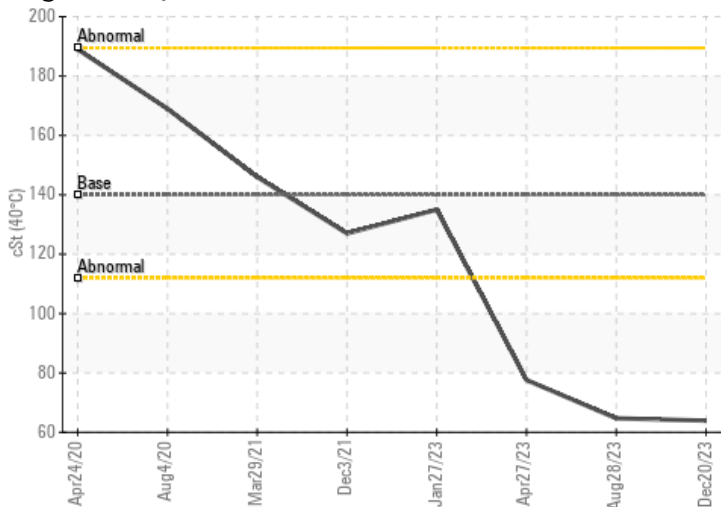
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Acid Number

