

LIEBHERR

CONSTRUCTION EQUIPMENT



[[INGRAM BARGE]] LIEBHERR LH110CP 134678-1228 - Hydraulic

Sample No: LH0243285
Oil Type: NOT GIVEN



RECO EQUIPMENT INC.
1040 REED DRIVE
MONROE, OH
US 45050
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SAMPLE INFORMATION

Sample Number	LH0243285	LH0244073	LH0243195	LH0217057
Sample Date	10 Jul 2023	16 Mar 2023	28 Dec 2022	31 May 2022
Machine Hours	3458	2952	2465	1000
Oil Hours	0	0	0	1000
Oil Changed	Not Chngd	N/A	N/A	N/A
Sample Status	ABNORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	45.1	43.5	44.5	44.7
Acid Number (AN)	mg KOH/g	1.06	0.88	0.96	1.20



CONTAMINATION

Particles >4µm		81980	1524	2454	8133
Particles >6µm		14988	500	645	1848
Particles >14µm		233	43	42	75
ISO 4406:1999 (c)		24/21/15	18/16/13	18/17/13	20/18/13
Silicon	ppm	2	5	5	4
Sodium	ppm	2	2	2	2
Potassium	ppm	<1	0	0	0



WEAR METALS

Iron	ppm	7	6	8	7
Copper	ppm	2	3	4	2
Lead	ppm	0	0	0	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	0	<1	<1	<1
Chromium	ppm	1	2	<1	<1
Molybdenum	ppm	<1	0	0	0
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1416	1254	1431	1344
Magnesium	ppm	6	3	5	4
Zinc	ppm	658	590	655	674
Phosphorus	ppm	617	543	596	572
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	0

Diagnosis

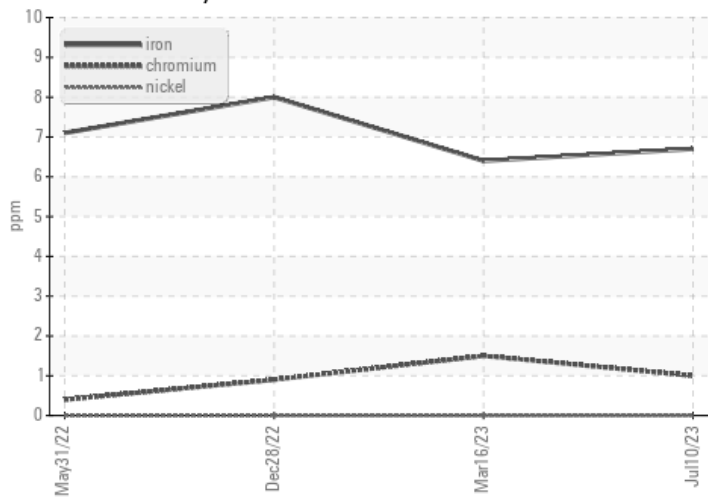
The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Depot: LEC0075
Unique No: 10559890
Signed: Wes Davis
Report Date: 17 Jul 2023

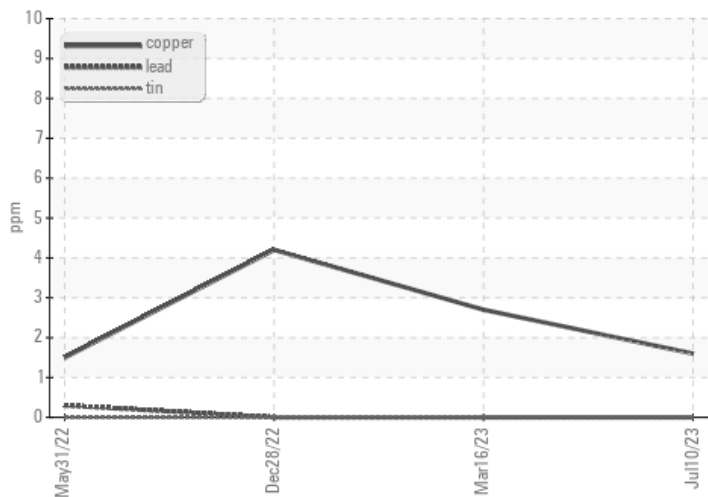


GRAPHS

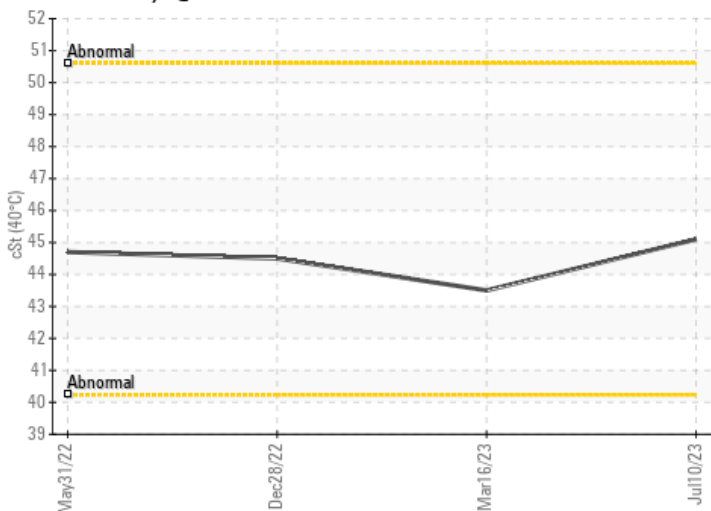
Ferrous Alloys



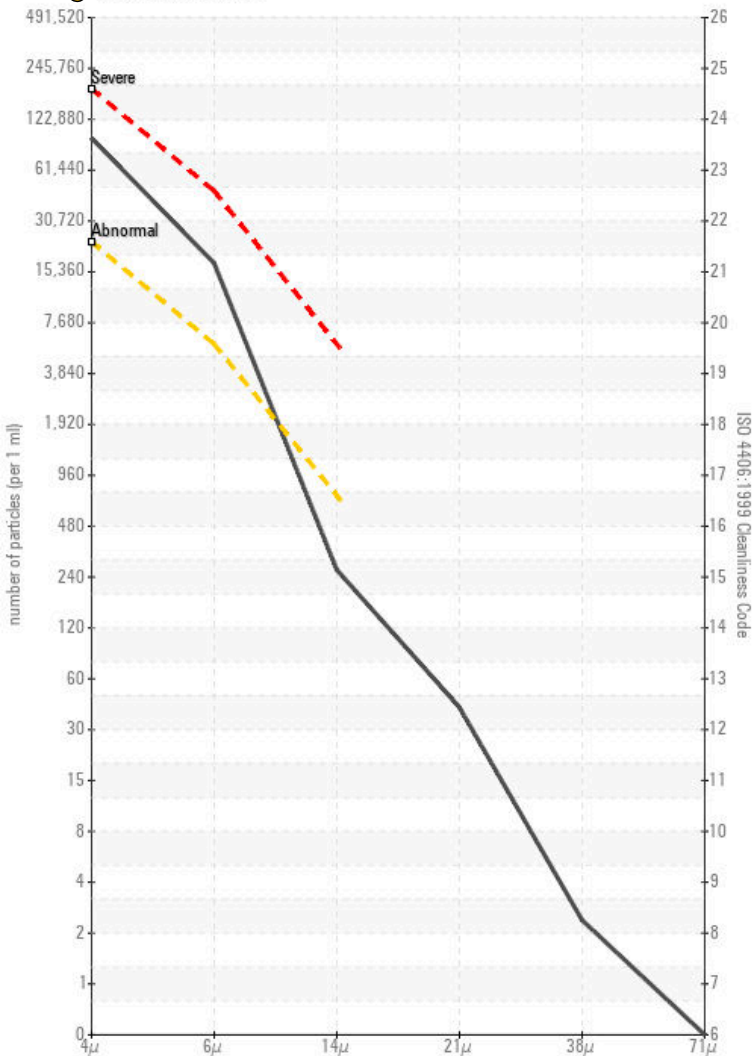
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

