

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH60M 145111-1217 - Hydraulic System

Sample No: LH0284998

Oil Type: {unknown}



RAM IRON AND METAL

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SAMPLE INFORMATION

Sample Number	LH0284998	LH0261761	LH0266080	LH0261413
Sample Date	12 Feb 2024	06 Sep 2023	20 Jun 2023	27 Apr 2023
Machine Hours	2972	2048	1188	558
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	MARGINAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	37.4	37.7	41.2	42.6



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		7595	5063	4632	7521
Particles >6µm		1939	1285	1052	1754
Particles >14µm		88	73	37	89
ISO 4406:1999 (c)		20/18/14	20/17/13	19/17/12	20/18/14
Silicon	ppm	3	4	3	2
Sodium	ppm	2	2	2	<1
Potassium	ppm	1	<1	1	1



WEAR METALS

Iron	ppm	53	54	35	13
Copper	ppm	12	10	6	2
Lead	ppm	<1	<1	<1	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	0	0	0	0
Nickel	ppm	<1	0	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	714	961	1087	1136
Magnesium	ppm	5	6	6	6
Zinc	ppm	519	613	649	639
Phosphorus	ppm	456	554	616	628
Barium	ppm	0	0	2	0
Boron	ppm	<1	1	<1	1

Diagnosis

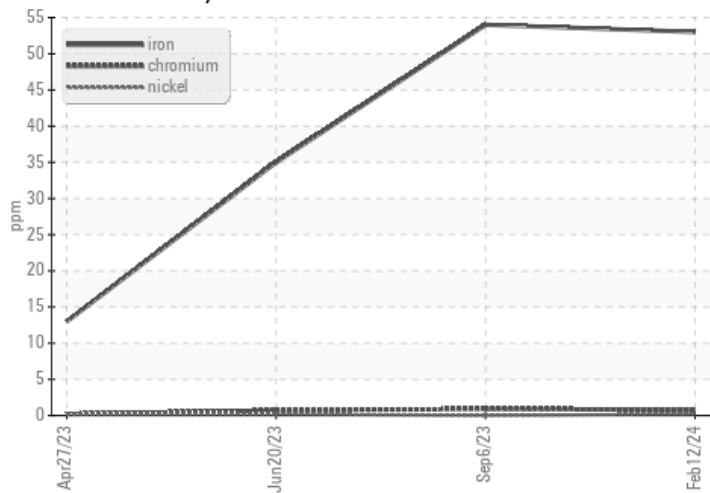
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The condition of the oil is acceptable for the time in service.

Depot: RAMTOR
Unique No: 5724496
Signed: Wes Davis
Report Date: 14 Feb 2024

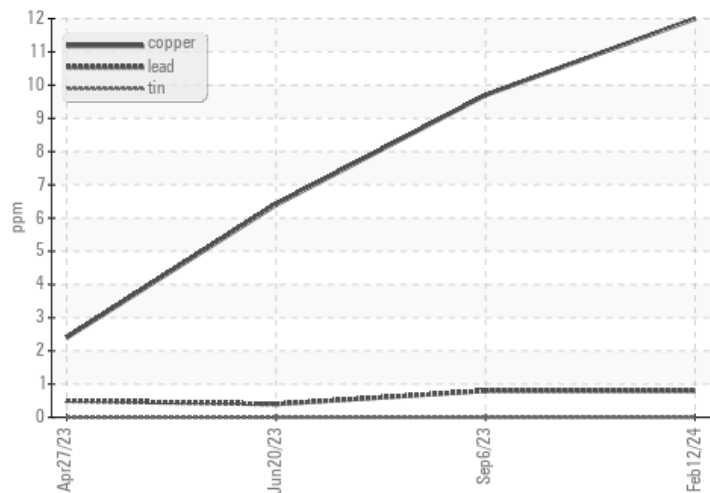


GRAPHS

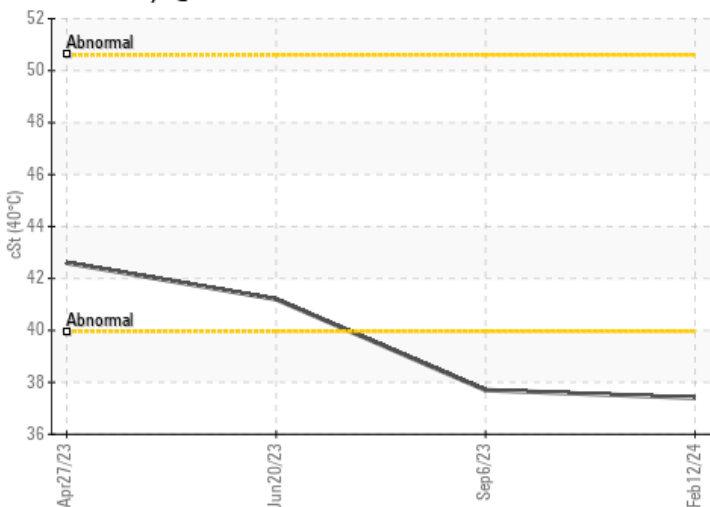
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

