

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR A934C 030061-1007 - Hydraulic System

Sample No: LH0244661

Oil Type: AW HYDRAULIC OIL ISO 46



SAMPLE INFORMATION

Sample Number	LH0244661	LH0244375	LH0207275	LHMC103851
Sample Date	16 Jul 2023	06 Dec 2022	20 Jan 2022	19 Nov 2019
Machine Hours	14552	30870	29887	27642
Oil Hours	0	0	0	700
Oil Changed	N/A	Not Changd	Not Changd	Changed
Sample Status	NORMAL	ATTENTION	NORMAL	NORMAL

NILES IRON & METAL CO. INC.

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NILES, OH

US 44446

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OIL CONDITION

Visc @ 40°C	cSt	43.6	43.8	44.1	45.5
Acid Number (AN)	mg KOH/g	0.39	0.39	0.33	0.445



CONTAMINATION

Particles >4µm		15590	30883	17107	8405
Particles >6µm		770	1865	483	1311
Particles >14µm		26	10	7	60
ISO 4406:1999 (c)		21/17/12	22/18/10	21/16/10	20/18/13
Silicon	ppm	<1	<1	<1	<1
Sodium	ppm	<1	<1	0	<1
Potassium	ppm	<1	0	0	0



WEAR METALS

Iron	ppm	4	5	2	3
Copper	ppm	<1	1	<1	<1
Lead	ppm	0	0	0	0
Tin	ppm	0	0	0	0
Aluminum	ppm	0	0	<1	0
Chromium	ppm	1	<1	2	2
Molybdenum	ppm	2	1	<1	2
Nickel	ppm	0	0	0	<1
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	0	0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	122	97	101	101
Magnesium	ppm	28	14	17	21
Zinc	ppm	517	472	438	456
Phosphorus	ppm	405	388	351	365
Barium	ppm	0	0	0	0
Boron	ppm	3	1	4	2

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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Depot: NILNIL

Unique No: 10561205

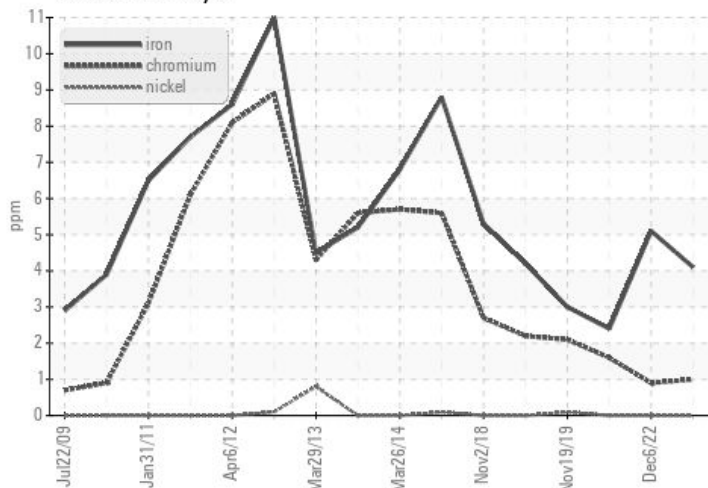
Signed: Wes Davis

Report Date: 18 Jul 2023

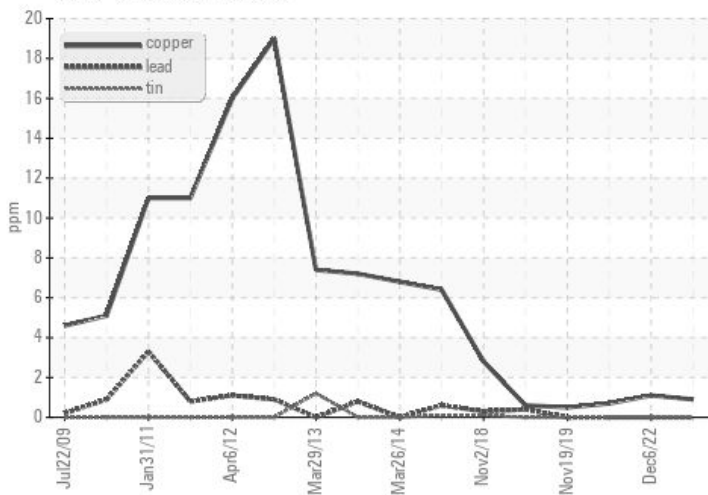


GRAPHS

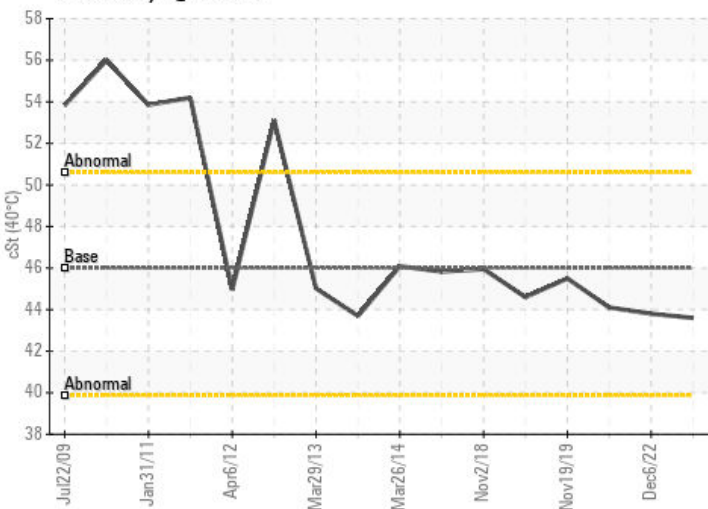
Ferrous Alloys



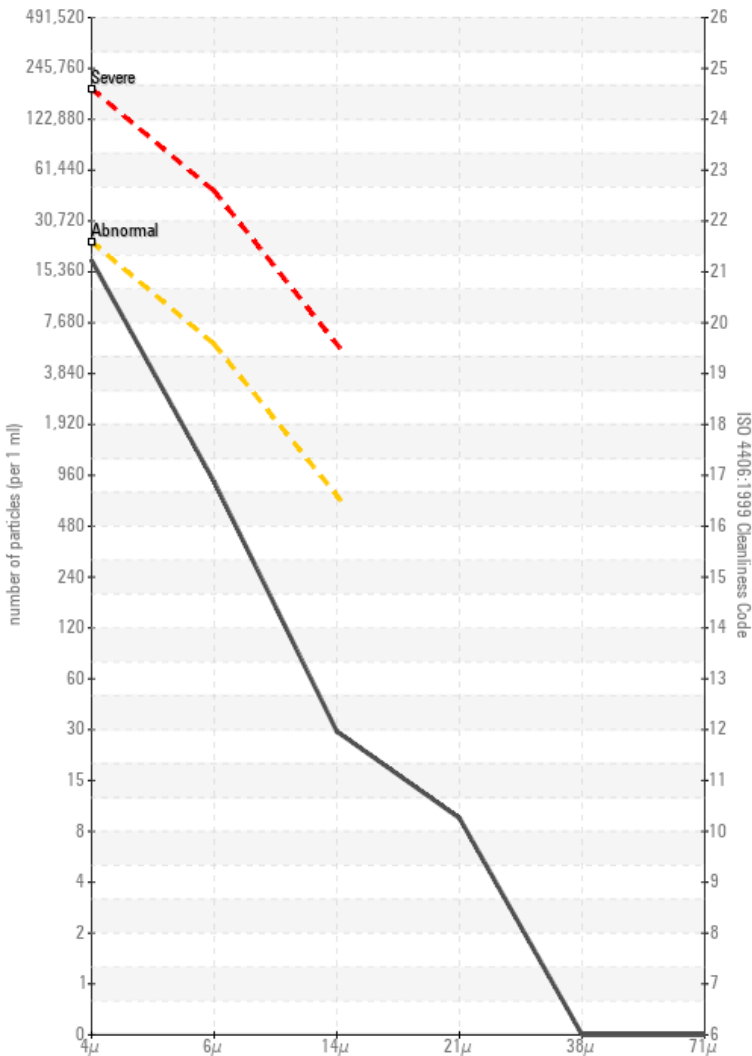
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

