

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR PR766 027906-1681 - Hydraulic System

Sample No: LH0264293

Oil Type: AW HYDRAULIC OIL ISO 68



**HEAVY MACHINES INC.**  
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#### Sample Information

Sample Number	LH0264293	LH0254473	LH0254551	LH0254256
Sample Date	31 May 2024	01 May 2024	03 Apr 2024	07 Mar 2024
Machine Hours	2848	2148	1518	882
Oil Hours	698	2148	1518	882
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	ATTENTION	ATTENTION	ATTENTION	ATTENTION



#### Oil Condition

Visc @ 40°C	cSt	49.5	44.2	44.9	45.8
Acid Number (AN)	mg KOH/g	1.02	1.72	1.42	1.39



#### Contamination

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		4851	11207	7895	6750
Particles >6µm		1025	2464	1524	1770
Particles >14µm		24	111	59	108
ISO 4406:1999 (c)		19/17/12	21/18/14	20/18/13	20/18/14
Silicon	ppm	6	6	6	5
Sodium	ppm	2	1	1	2
Potassium	ppm	2	4	4	1



#### Wear Metals

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



#### Additives

Calcium	ppm	955	1328	1326	1311
Magnesium	ppm	5	7	8	8
Zinc	ppm	631	707	685	707
Phosphorus	ppm	538	661	684	629
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	0

#### Diagnosis

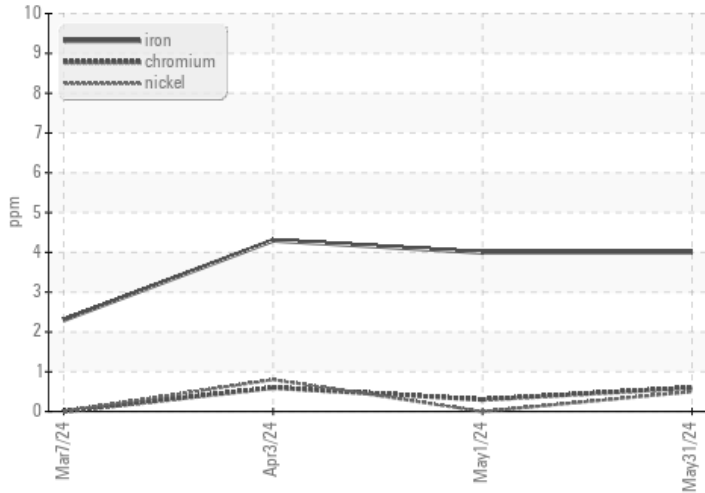
No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. Viscosity of sample indicates oil is within ISO 46 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

Depot: LEC0051  
 Unique No: 11084411  
 Signed: Don Baldrige  
 Report Date: 18 Jun 2024

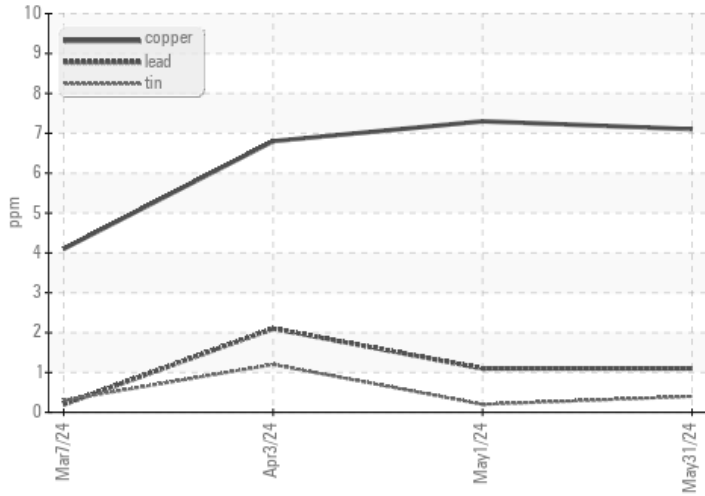


### Graphs

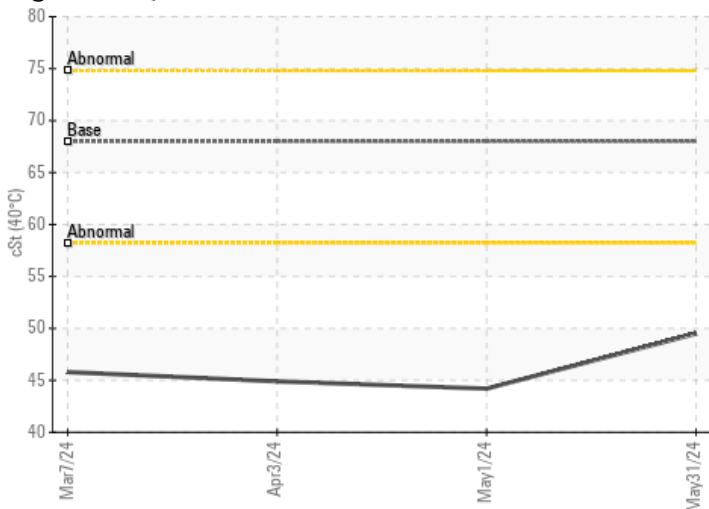
#### Ferrous Alloys



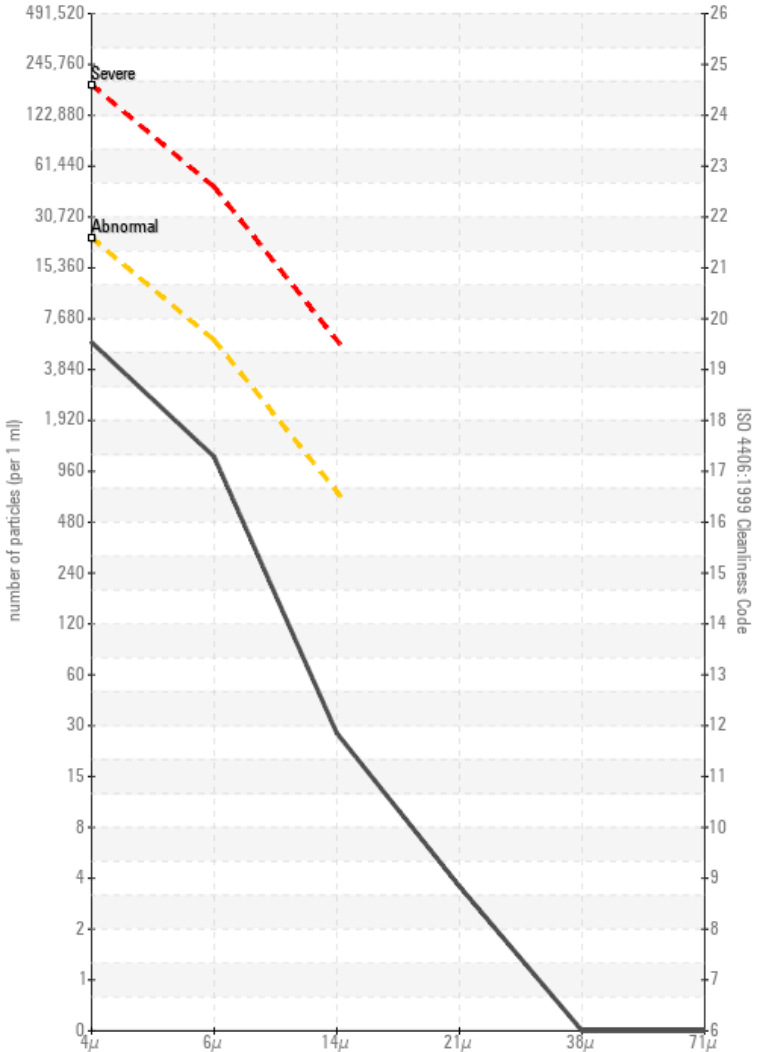
#### Non-ferrous Metals



#### Viscosity @ 40°C



#### Particle Count



#### Acid Number

