LIEBHERR
CONSTRUCTION EQUIPMENT

LIEBHERR L566 1484-60217 - Hydraulic System

Sample No: LH0263747

Oil Type: {unknown}

MR BULTS INC
2627 E 139TH ST
BURNHAM, IL
US 60633
Contact: SERVICE MANAGER

T: (708)868-0059
F:

SAMPLE INFORMATION

Sample Number		**LH0263747**	LH0263725	---	---
Sample Date		**11 Jan 2024**	18 Apr 2023	---	---
Machine Hours		**5070**	3000	---	---
Oil Hours		**0**	0	---	---
Oil Changed		**N/A**	N/A	---	---
Sample Status		**ABNORMAL**	NORMAL	---	---

OIL CONDITION

Visc @ 40°C	cSt	**52.5**	53.0	---	---
Acid Number (AN)	mg KOH/g	**0.51**	0.66	---	---

CONTAMINATION

Water	%	**NEG**	NEG	---	---
Particles >4µm		**23416**	12748	---	---
Particles >6µm		**8124**	2183	---	---
Particles >14µm		**1636**	52	---	---
ISO 4406:1999 (c)		**22/20/18**	21/18/13	---	---
Silicon	ppm	**2**	2	---	---
Sodium	ppm	**2**	3	---	---
Potassium	ppm	**<1**	4	---	---

WEAR METALS

Iron	ppm	**15**	12	---	---
Copper	ppm	**3**	3	---	---
Lead	ppm	**5**	5	---	---
Tin	ppm	**0**	<1	---	---
Aluminum	ppm	**0**	<1	---	---
Chromium	ppm	**6**	4	---	---
Molybdenum	ppm	**0**	<1	---	---
Nickel	ppm	**0**	0	---	---
Titanium	ppm	**0**	0	---	---
Silver	ppm	**0**	<1	---	---
Manganese	ppm	**0**	<1	---	---
Vanadium	ppm	**0**	0	---	---

ADDITIVES

Calcium	ppm	**927**	984	---	---
Magnesium	ppm	**4**	10	---	---
Zinc	ppm	**409**	439	---	---
Phosphorus	ppm	**344**	369	---	---
Barium	ppm	**0**	0	---	---
Boron	ppm	**0**	0	---	---

Diagnosis

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. 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 particulates (2 to 100 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: MRBBURLH
Unique No: 10830622
Signed: Wes Davis
Report Date: 15 Jan 2024

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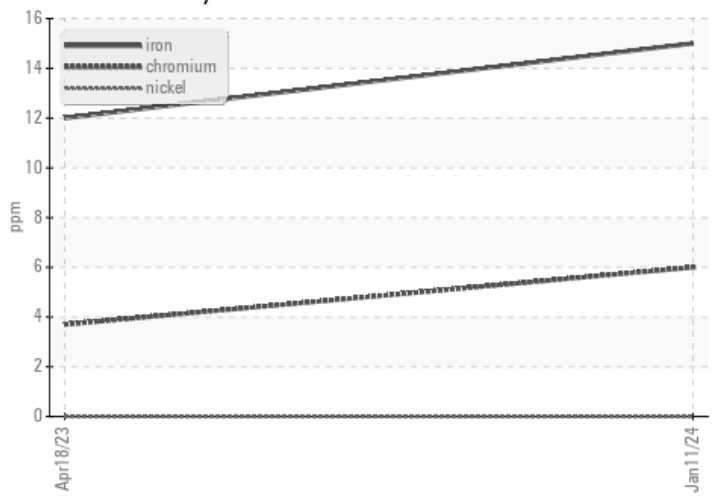
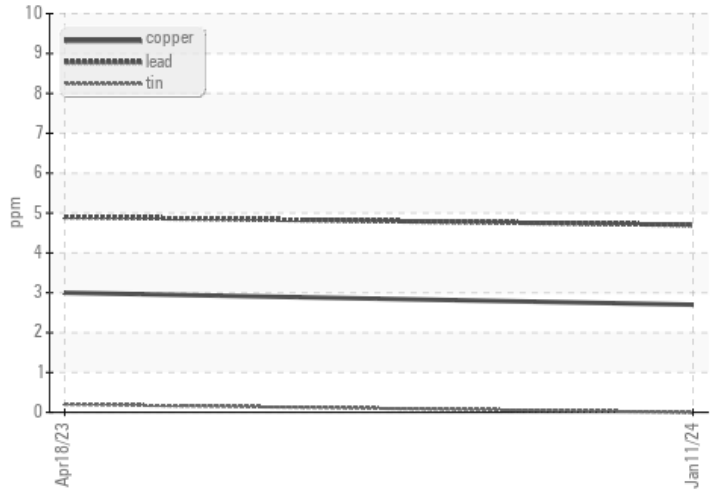
GRAPHS

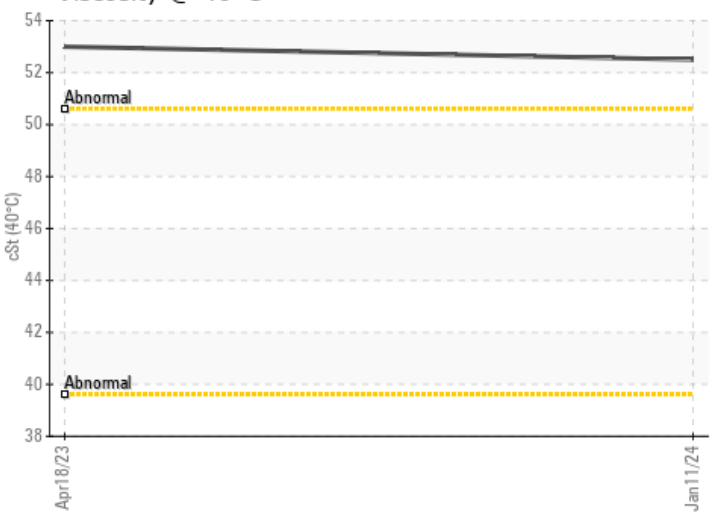
Ferrous Alloys



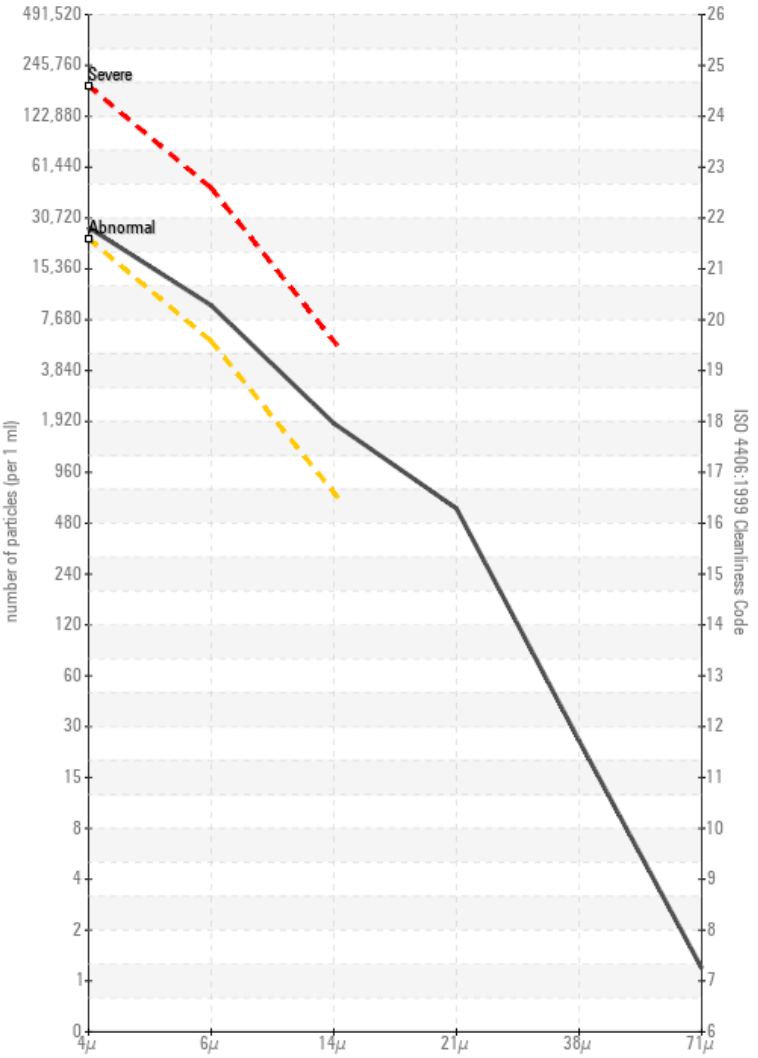
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number