



CONSTRUCTION EQUIPMENT

R22504 GEORGE HARMS MANITOWOC MLC300 607788 - HYDRAULIC SYSTEM



Sample No: VCP390282
Oil Type: MANITOWOC 46
Job No: R22504 GEORGE HARMS



SAMPLE INFORMATION

Sample Number	VCP390282	VCP399092	---	---
Sample Date	10 Jul 2023	05 Dec 2022	---	---
Machine Hours	5764	6606	---	---
Oil Hours	0	0	---	---
Oil Changed	Not Chngd	Not Chngd	---	---
Sample Status	NORMAL	ABNORMAL	---	---

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OIL CONDITION

Visc @ 40°C	cSt	█ 97.4	█ 42.9	---	---
Acid Number (AN)	mg KOH/g	█ 1.51	█ 0.59	---	---



CONTAMINATION

Particles >4µm		█ 374451	▲ 23296	---	---
Particles >6µm		█ 145972	▲ 4769	---	---
Particles >14µm		█ 167	█ 53	---	---
ISO 4406:1999 (c)		26/24/15	22/19/13	---	---
Silicon	ppm	█ 2	█ 5	---	---
Sodium	ppm	█ <1	█ 0	---	---
Potassium	ppm	█ 2	█ 2	---	---

Diagnosis

We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. Confirm oil type. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	█ 3	█ 4	---	---
Copper	ppm	█ <1	█ 5	---	---
Lead	ppm	█ 0	█ <1	---	---
Tin	ppm	█ <1	█ 0	---	---
Aluminum	ppm	█ 1	█ <1	---	---
Chromium	ppm	█ 0	█ 0	---	---
Molybdenum	ppm	█ 62	█ 3	---	---
Nickel	ppm	█ 0	█ 0	---	---
Titanium	ppm	<1	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	█ <1	---	---
Vanadium	ppm	<1	0	---	---



ADDITIVES

Calcium	ppm	█ 1157	2137	---	---
Magnesium	ppm	█ 1039	█ 27	---	---
Zinc	ppm	█ 1329	1012	---	---
Phosphorus	ppm	█ 1076	781	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	<1	█ 64	---	---

Depot: HOFPISNJ
Unique No: 10562578
Signed: Doug Bogart
Report Date: 20 Jul 2023

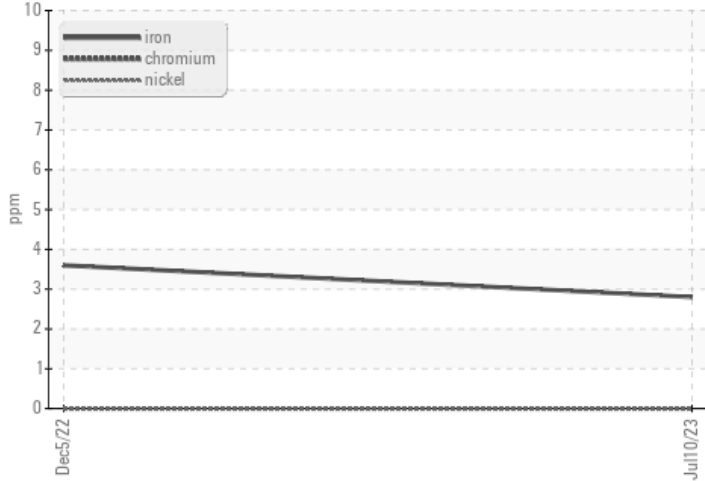


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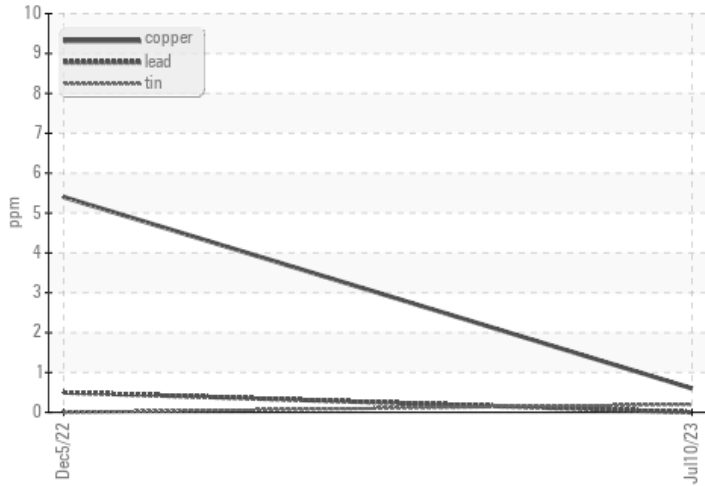


GRAPHS

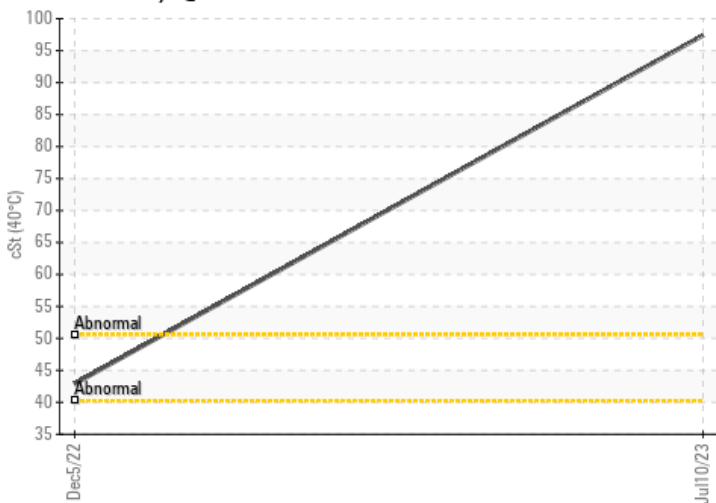
Ferrous Alloys



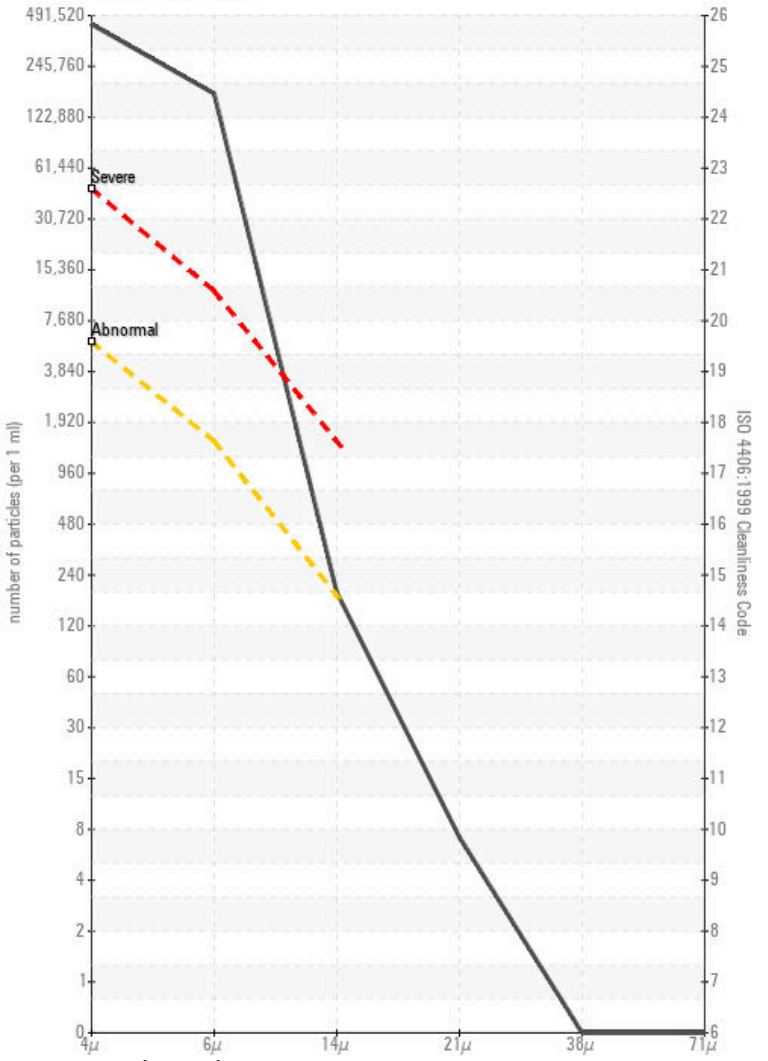
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

