



CONSTRUCTION EQUIPMENT

RS0037772 HITACHI ZX245 514303 - HYDRAULIC SYSTEM



Sample No: VCP438622
Oil Type: HITACHI HYDRAULIC SUPER EX 46HN
Job No: RSO037772



SAMPLE INFORMATION

Sample Number	VCP438622	---	---	---
Sample Date	25 Apr 2024	---	---	---
Machine Hours	685	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	NORMAL	---	---	---

COWIN EQUIPMENT - ATLANTA

5710 RIVERVIEW RD
 MABLETON, GA
 US 30126

Contact: WILL BICE
 wbice@cowin.com
 T: (762)207-0004
 F:



OIL CONDITION

Visc @ 40°C	cSt	█ 45.9	---	---	---
Acid Number (AN)	mg KOH/g	█ 0.163	---	---	---



CONTAMINATION

Water	%	NEG	---	---	---
Particles >4µm		█ 1769	---	---	---
Particles >6µm		█ 290	---	---	---
Particles >14µm		█ 34	---	---	---
ISO 4406:1999 (c)		18/15/12	---	---	---
Silicon	ppm	█ <1	---	---	---
Sodium	ppm	█ <1	---	---	---
Potassium	ppm	█ 0	---	---	---

Diagnosis

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



WEAR METALS

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



ADDITIVES

Calcium	ppm	█ 2	---	---	---
Magnesium	ppm	█ 1	---	---	---
Zinc	ppm	█ 31	---	---	---
Phosphorus	ppm	█ 550	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 0	---	---	---

Depot: COWMAB
Unique No: 11003479
Signed: Don Baldrige
Report Date: 01 May 2024

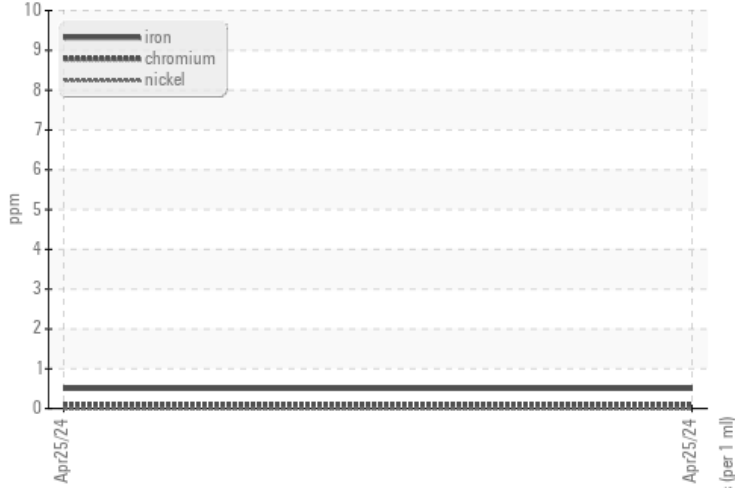


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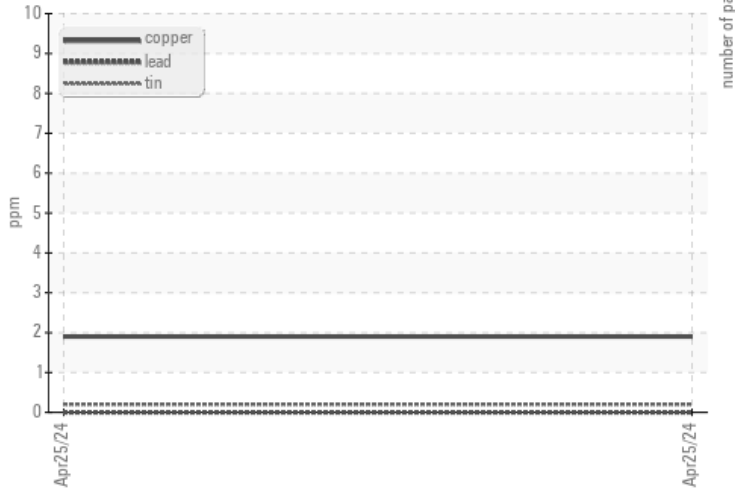


GRAPHS

Ferrous Alloys



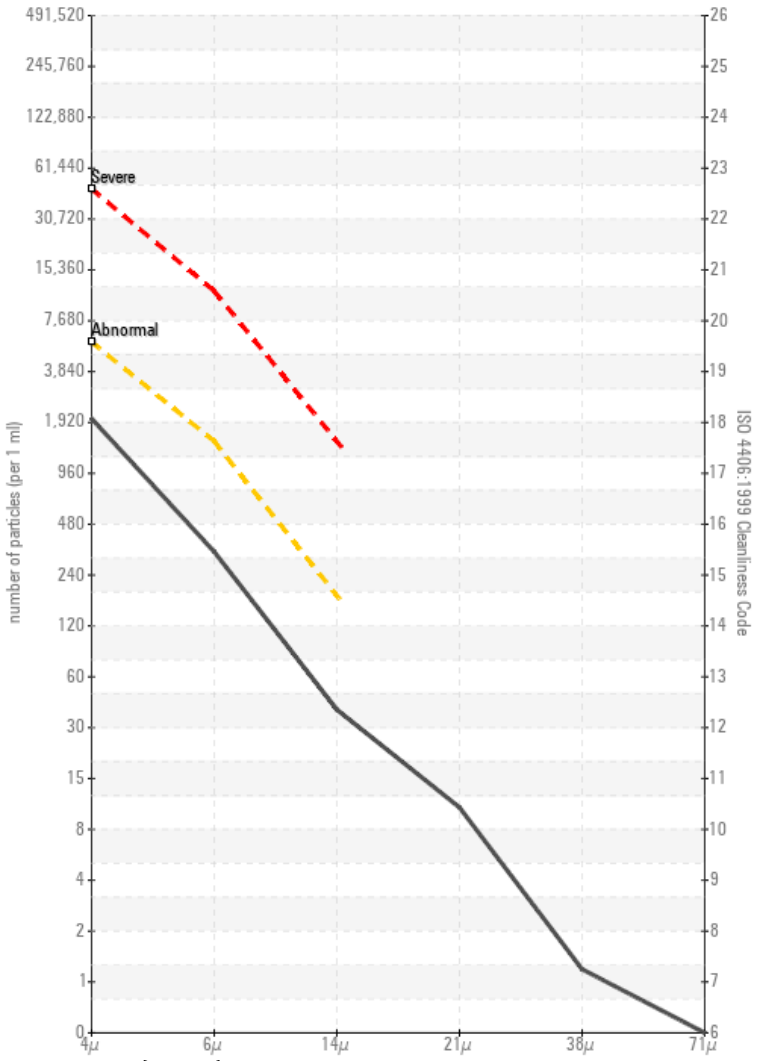
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

