

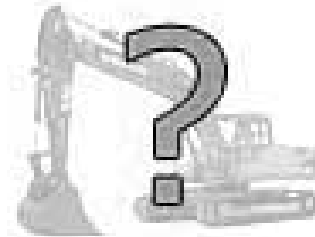


CONSTRUCTION EQUIPMENT

HITACHI ZW150 5379 - HYDRAULIC SYSTEM



Sample No: VCP433914
Oil Type: AW HYDRAULIC OIL ISO 46
Job No:



SAMPLE INFORMATION

Sample Number	VCP433914	---	---	---
Sample Date	28 Aug 2023	---	---	---
Machine Hours	0	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	NORMAL	---	---	---

COWIN EQUIPMENT - ATLANTA
 5710 RIVERVIEW RD
 MABLETON, GA
 US 30126
 Contact: MIKE ANDREWS
 mandrews@cowin.com
 T: (404)690-7210
 F:



OIL CONDITION

Visc @ 40°C	cSt	█ 43.2	---	---	---
Acid Number (AN)	mg KOH/g	█ 0.29	---	---	---



CONTAMINATION

Particles >4µm		█ 1819	---	---	---
Particles >6µm		█ 297	---	---	---
Particles >14µm		█ 29	---	---	---
ISO 4406:1999 (c)		18/15/12	---	---	---
Silicon	ppm	█ 16	---	---	---
Sodium	ppm	█ 0	---	---	---
Potassium	ppm	█ 2	---	---	---

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



WEAR METALS

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



ADDITIVES

Calcium	ppm	█ 183	---	---	---
Magnesium	ppm	█ 15	---	---	---
Zinc	ppm	█ 154	---	---	---
Phosphorus	ppm	█ 313	---	---	---
Barium	ppm	█ 2	---	---	---
Boron	ppm	█ 0	---	---	---

Depot: COWMAB
Unique No: 10628834
Signed: Don Baldrige
Report Date: 31 Aug 2023

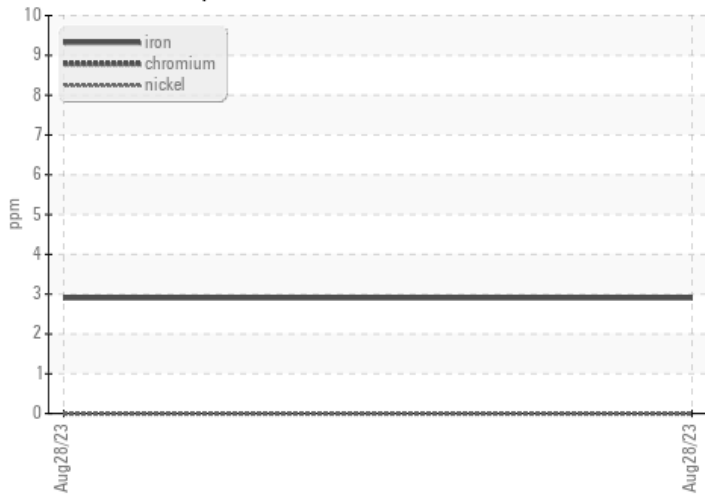


CONSTRUCTION EQUIPMENT

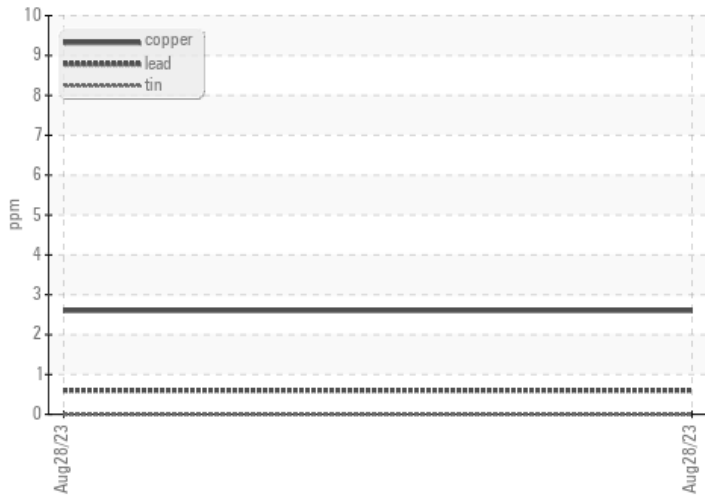


GRAPHS

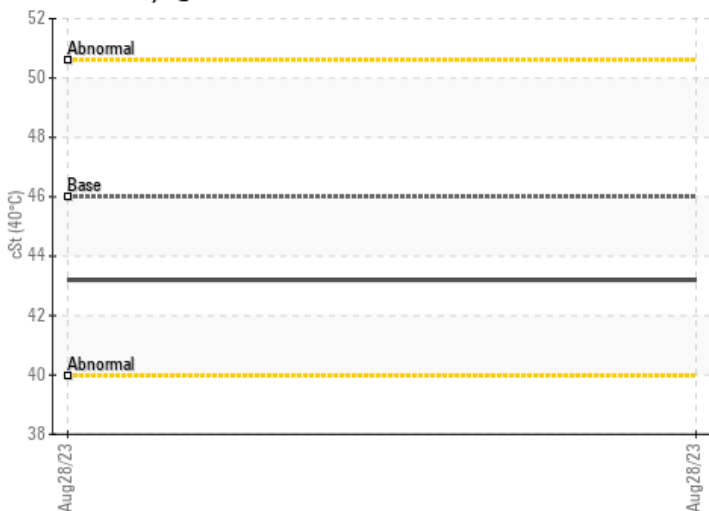
Ferrous Alloys



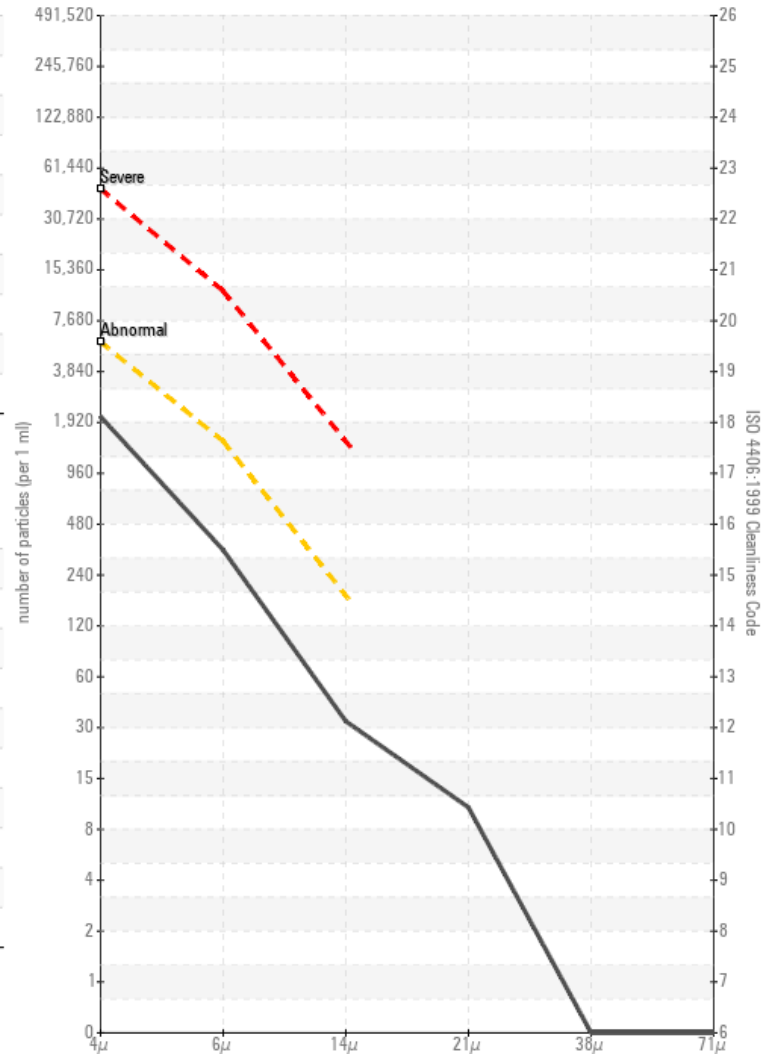
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

