



CONSTRUCTION EQUIPMENT

4143HS VOLVO A40D 12682 - HYDRAULIC SYSTEM



Sample No: VCP421986

Oil Type: NOT GIVEN

Job No: 4143HS



SAMPLE INFORMATION

Sample Number	VCP421986	VC309102	---	---
Sample Date	11 Aug 2023	17 Sep 2008	---	---
Machine Hours	14321	3034	---	---
Oil Hours	0	624	---	---
Oil Changed	Not Chngd	Not Chngd	---	---
Sample Status	NORMAL	NORMAL	---	---

HIGHWAY EQUIPMENT & SUPPLY CO MAIN
 PO BOX 1957
 HARRISBURG, PA
 US 17105
 Contact: CHAD HERRON



OIL CONDITION

Visc @ 40°C	cSt	54.4	44.75	---	---
Acid Number (AN)	mg KOH/g	0.78	0.454	---	---

T: 7(175)643-3031
 F: (717)564-3568



CONTAMINATION

Particles >4µm		16153	13226	---	---
Particles >6µm		1565	395	---	---
Particles >14µm		34	10	---	---
ISO 4406:1999 (c)		21/18/12	21/16/10	---	---
Silicon	ppm	7	<1	---	---
Sodium	ppm	2	0	---	---
Potassium	ppm	0	3	---	---

Diagnosis

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. 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 acceptable for the time in service.



WEAR METALS

Iron	ppm	5	<1	---	---
Copper	ppm	3	3	---	---
Lead	ppm	0	0	---	---
Tin	ppm	0	0	---	---
Aluminum	ppm	2	0	---	---
Chromium	ppm	0	0	---	---
Molybdenum	ppm	1	0	---	---
Nickel	ppm	0	0	---	---
Titanium	ppm	<1	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	0	---	---
Vanadium	ppm	<1	0	---	---



ADDITIVES

Calcium	ppm	973	72	---	---
Magnesium	ppm	11	10	---	---
Zinc	ppm	613	362	---	---
Phosphorus	ppm	540	289	---	---
Barium	ppm	0	0	---	---
Boron	ppm	22	<1	---	---

Depot: VOLVO0025
Unique No: 10609490
Signed: Angela Borella
Report Date: 22 Aug 2023

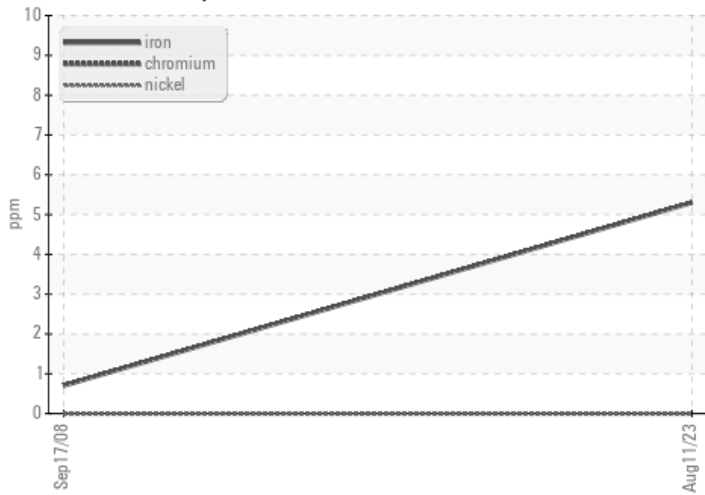


CONSTRUCTION EQUIPMENT

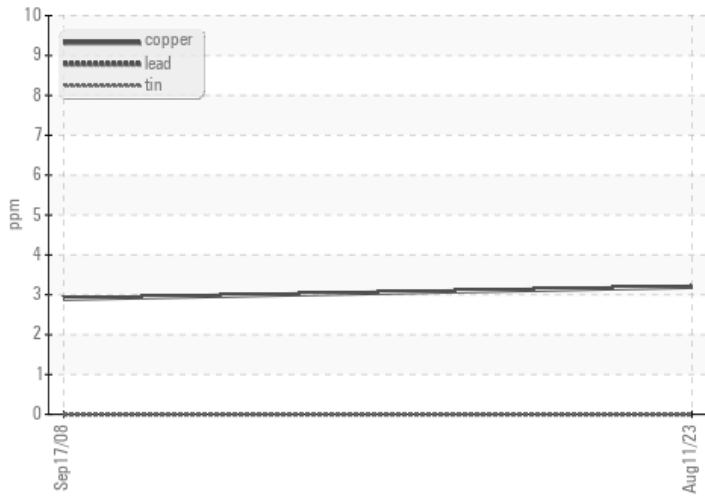


GRAPHS

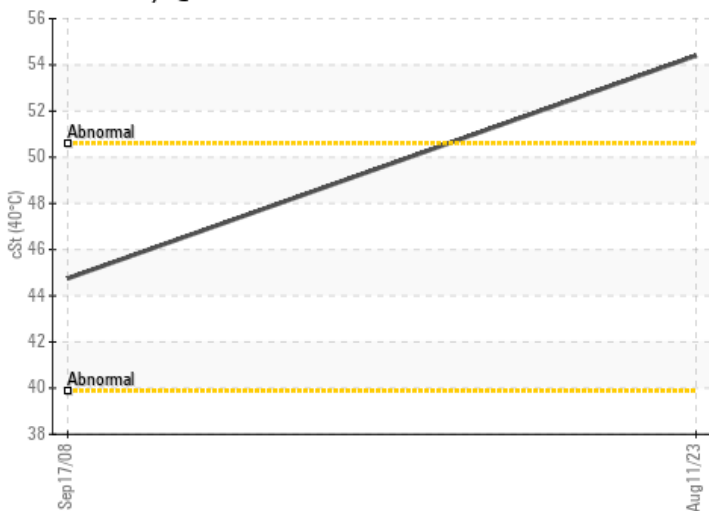
Ferrous Alloys



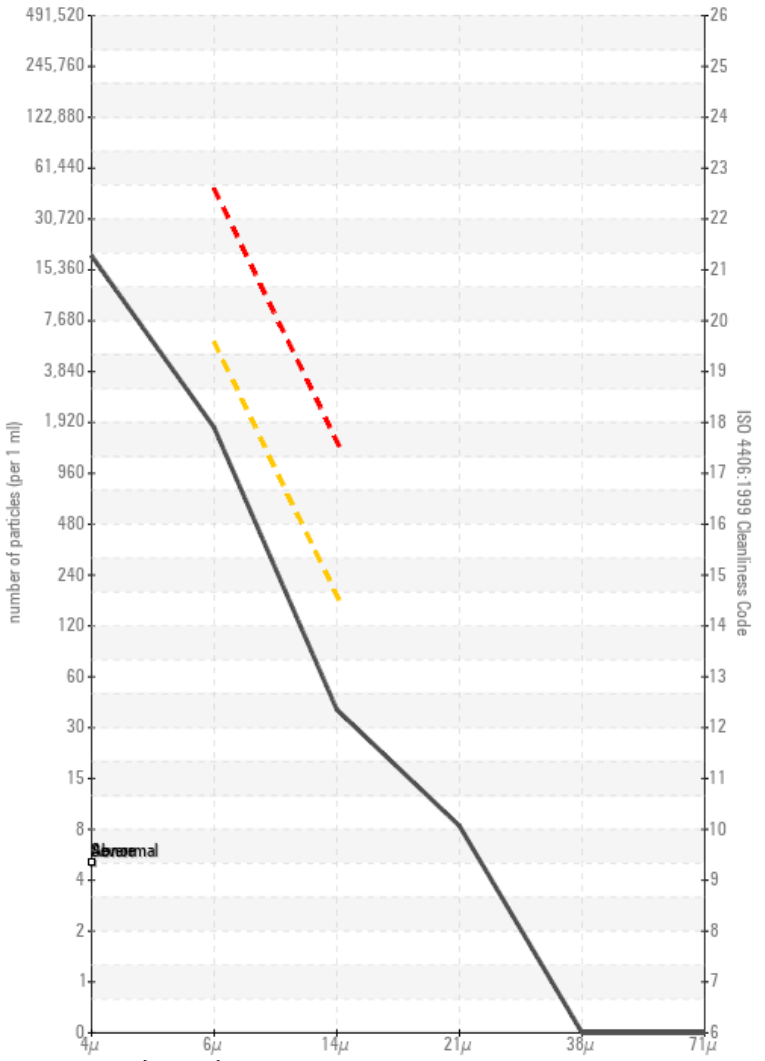
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

