



CONSTRUCTION EQUIPMENT

GILBERT BLACK VOLVO L90H 624683 - HYDRAULIC SYSTEM



Sample No: VC450389
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: GILBERT BLACK



SAMPLE INFORMATION

Sample Number	VC450389	---	---	---
Sample Date	31 Aug 2023	---	---	---
Machine Hours	7195	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	NORMAL	---	---	---

CHADWICK-BAROSS INC
 ROUTE106 237 SHEEP DAVIS ROAD
 CONCORD, NH
 US 03301
 Contact: Dan Godfrey
 godfreyd@chadwick-baross.com
 T: (603)224-4063
 F: (603)224-3001

OIL CONDITION

Visc @ 40°C	cSt	█ 41.4	---	---	---
Acid Number (AN)	mg KOH/g	█ 0.41	---	---	---

CONTAMINATION

Particles >4µm		█ 1182	---	---	---
Particles >6µm		█ 183	---	---	---
Particles >14µm		█ 16	---	---	---
ISO 4406:1999 (c)		17/15/11	---	---	---
Silicon	ppm	█ 4	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ <1	---	---	---

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	█ 4	---	---	---
Copper	ppm	█ 1	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 0	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	55	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	█ 0	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	█ 50	---	---	---
Magnesium	ppm	█ 2	---	---	---
Zinc	ppm	█ 404	---	---	---
Phosphorus	ppm	█ 346	---	---	---
Barium	ppm	█ 2	---	---	---
Boron	ppm	█ 0	---	---	---

Depot: VOLVO0049
Unique No: 10633542
Signed: Don Baldrige
Report Date: 08 Sep 2023

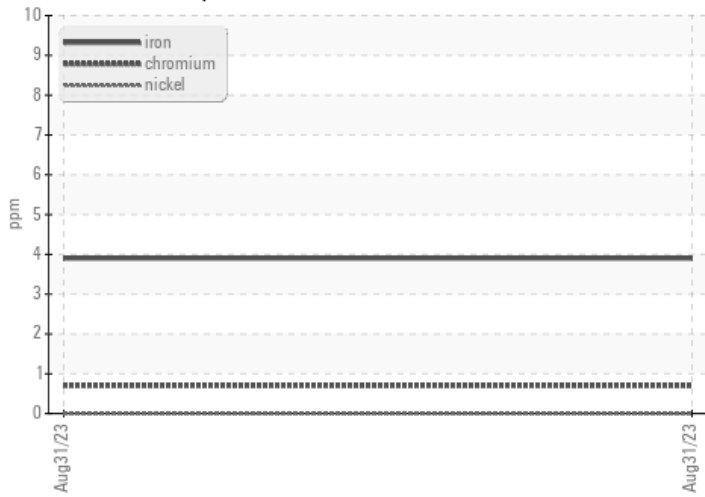


CONSTRUCTION EQUIPMENT

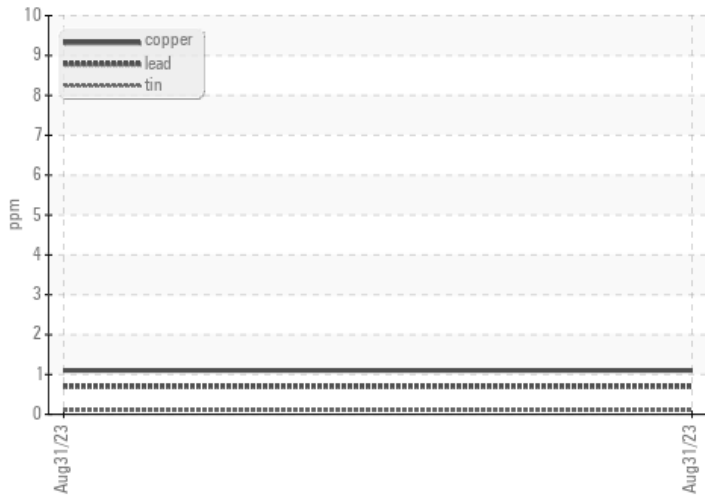


GRAPHS

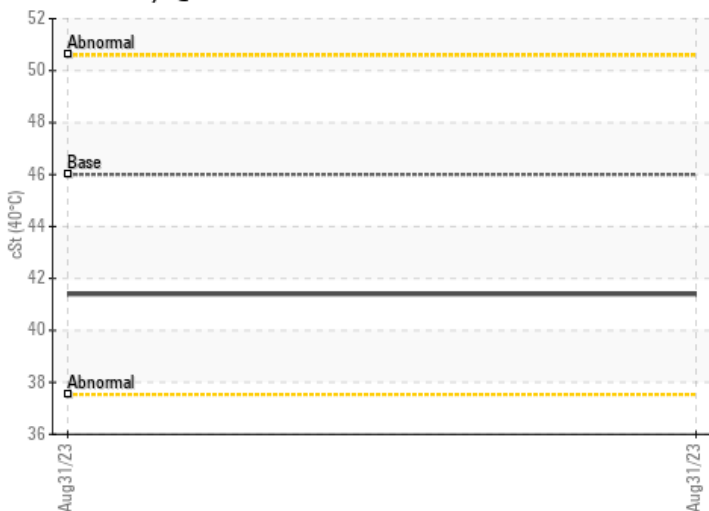
Ferrous Alloys



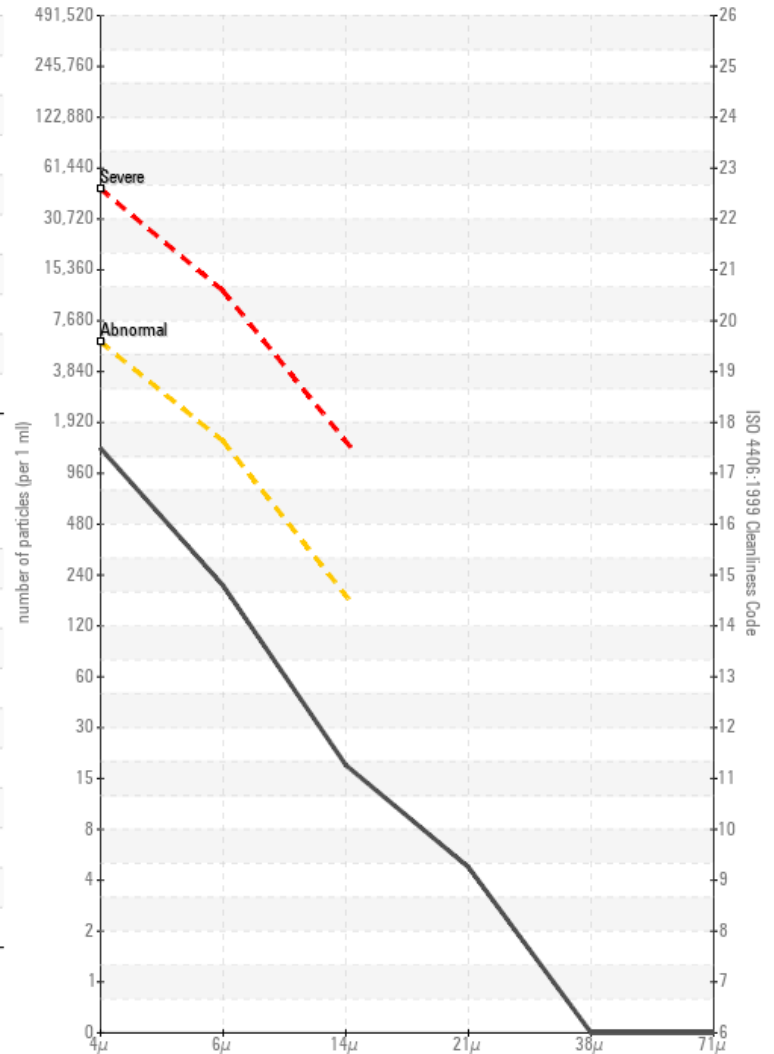
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

