



CONSTRUCTION EQUIPMENT

VOLVO EC220E 310773 - HYDRAULIC SYSTEM



Sample No: VCP434944
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No:



SAMPLE INFORMATION

Sample Number	VCP434944	VCP276358	---	---
Sample Date	17 Oct 2023	01 May 2020	---	---
Machine Hours	1984	946	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Not Changd	---	---
Sample Status	ATTENTION	ABNORMAL	---	---

ALTA EQUIPMENT COMPANY
 5151 DR MARTIN LUTHER KING BLVD
 FORT MYERS, FL
 US 33905
 Contact: TODD LARK
 tlark@altaequipfl.com
 T:
 F: (239)481-3302

OIL CONDITION

Visc @ 40°C	cSt	■ 42.7	■ 43.0	---	---
Acid Number (AN)	mg KOH/g	■ 0.46	■ 0.421	---	---

CONTAMINATION

Particles >4µm		▲ 41175	---	---	---
Particles >6µm		▲ 10887	---	---	---
Particles >14µm		■ 801	---	---	---
ISO 4406:1999 (c)		23/21/17	---	---	---
Silicon	ppm	■ 4	■ 4	---	---
Sodium	ppm	■ <1	■ 0	---	---
Potassium	ppm	■ 0	■ 0	---	---

Diagnosis
 The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a light amount of silt (particulates < 14 microns in size) present 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	■ 1	■ 2	---	---
Copper	ppm	■ 30	■ 27	---	---
Lead	ppm	■ 0	■ <1	---	---
Tin	ppm	■ 0	<1	---	---
Aluminum	ppm	■ <1	■ 0	---	---
Chromium	ppm	■ 0	■ 0	---	---
Molybdenum	ppm	■ 0	0	---	---
Nickel	ppm	■ 0	■ 0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	<1	---	---
Manganese	ppm	■ 0	<1	---	---
Vanadium	ppm	0	0	---	---

ADDITIVES

Calcium	ppm	■ 69	71	---	---
Magnesium	ppm	■ 0	<1	---	---
Zinc	ppm	■ 446	519	---	---
Phosphorus	ppm	■ 379	400	---	---
Barium	ppm	■ 0	0	---	---
Boron	ppm	■ 0	<1	---	---

Depot: VOLVO0090
Unique No: 10701465
Signed: Wes Davis
Report Date: 20 Oct 2023

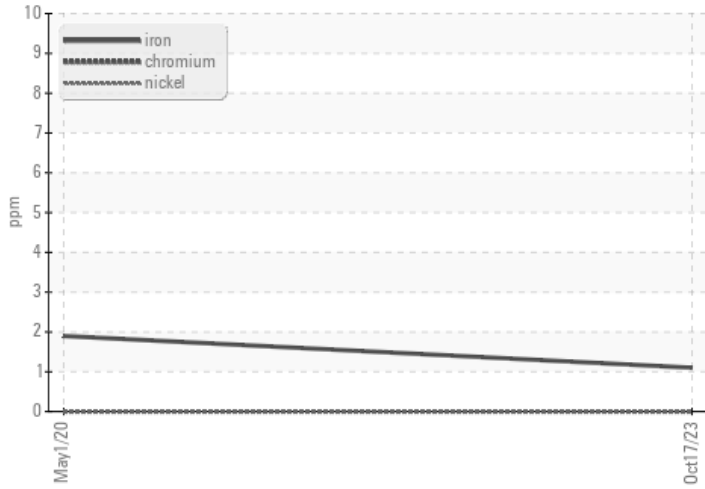


CONSTRUCTION EQUIPMENT

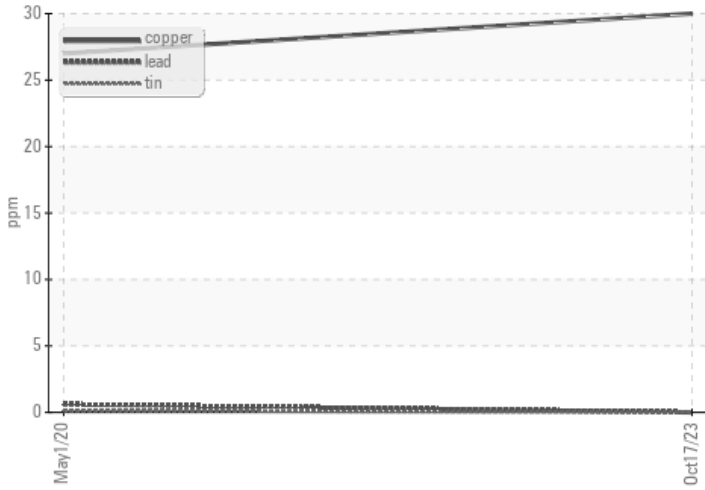


GRAPHS

Ferrous Alloys



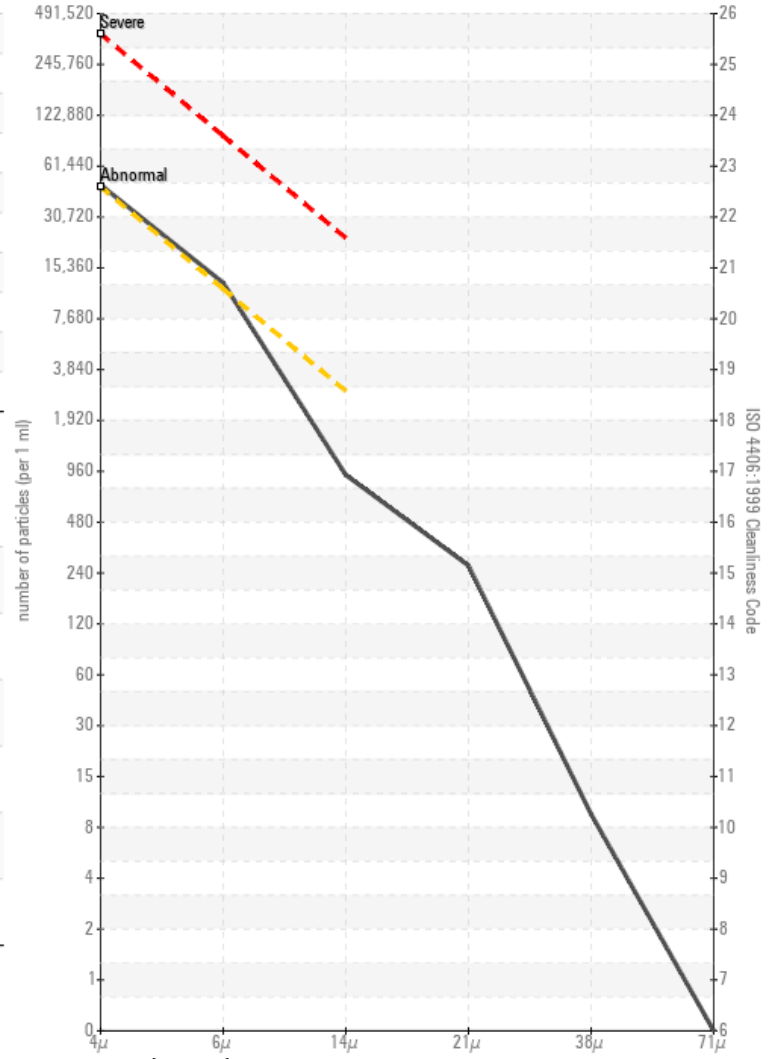
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

