



CONSTRUCTION EQUIPMENT

580485 VOLVO EC300EL 314677 - HYDRAULIC SYSTEM



Sample No: VCP416749
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 580485



SAMPLE INFORMATION

Sample Number	VCP416749	VCP388144	---	---
Sample Date	25 Jul 2023	01 Nov 2022	---	---
Machine Hours	1036	494	---	---
Oil Hours	1000	494	---	---
Oil Changed	Not Chngd	Not Chngd	---	---
Sample Status	ABNORMAL	NORMAL	---	---

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OIL CONDITION

Visc @ 40°C	cSt	42.9	43.8	---	---
Acid Number (AN)	mg KOH/g	0.48	0.45	---	---



CONTAMINATION

Particles >4µm		---	4216	---	---
Particles >6µm		---	757	---	---
Particles >14µm		---	46	---	---
ISO 4406:1999 (c)		---	19/17/13	---	---
Silicon	ppm	2	2	---	---
Sodium	ppm	<1	0	---	---
Potassium	ppm	0	0	---	---

Diagnosis

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample. All component wear rates are normal. Moderate concentration of visible dirt/debris 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	2	2	---	---
Copper	ppm	33	24	---	---
Lead	ppm	0	0	---	---
Tin	ppm	0	0	---	---
Aluminum	ppm	<1	<1	---	---
Chromium	ppm	0	0	---	---
Molybdenum	ppm	0	0	---	---
Nickel	ppm	0	0	---	---
Titanium	ppm	<1	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	0	---	---
Vanadium	ppm	<1	0	---	---



ADDITIVES

Calcium	ppm	80	75	---	---
Magnesium	ppm	2	0	---	---
Zinc	ppm	495	484	---	---
Phosphorus	ppm	409	391	---	---
Barium	ppm	0	0	---	---
Boron	ppm	0	0	---	---

Depot: VOLVO0093
Unique No: 10616083
Signed: Don Baldrige
Report Date: 23 Aug 2023

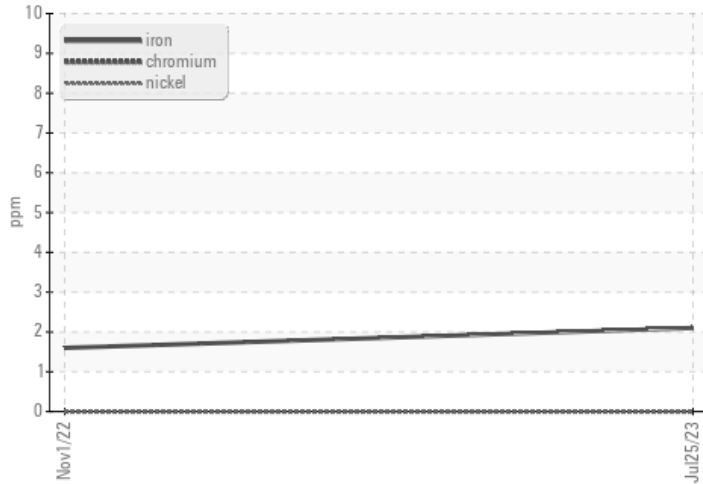


CONSTRUCTION EQUIPMENT

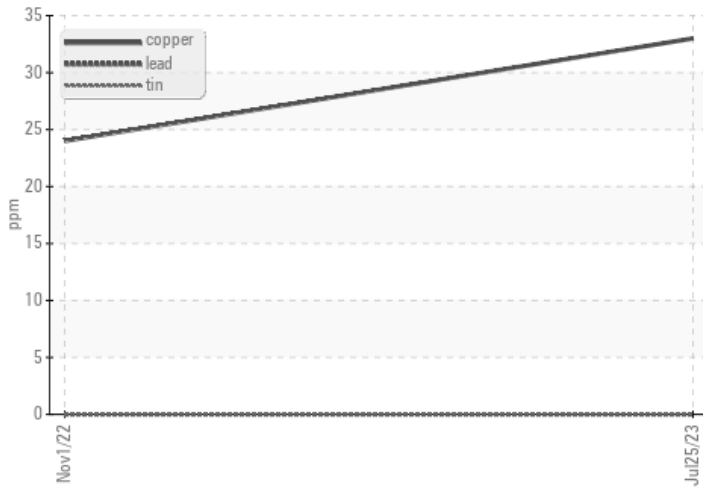


GRAPHS

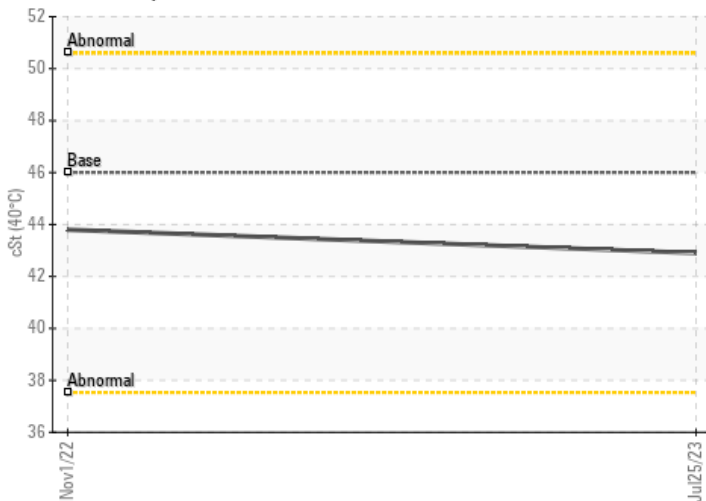
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Acid Number

