CONSTRUCTION EQUIPMENT

ZEFCO VOLVO EC160EL 310083 - HYDRAULIC SYSTEM

Sample No: VCP389290
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: ZEFCO

216 - ASCENDUM MACHINERY INC - PIEDMONT
407 OAK ROAD
PIEDMONT, SC
US 29673
Contact: KEMP COBLE
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T: (864)704-1060
F: (864)704-1069

SAMPLE INFORMATION

Sample Number		**VCP389290**	---	---	---
Sample Date		**04 Oct 2023**	---	---	---
Machine Hours		**4031**	---	---	---
Oil Hours		**0**	---	---	---
Oil Changed		**N/A**	---	---	---
Sample Status		**ABNORMAL**	---	---	---

OIL CONDITION

Visc @ 40°C	cSt	**43.1**	---	---	---
Acid Number (AN)	mg KOH/g	**0.41**	---	---	---

CONTAMINATION

Particles >4µm		**8434**	---	---	---
Particles >6µm		**563**	---	---	---
Particles >14µm		**22**	---	---	---
ISO 4406:1999 (c)		**20/16/12**	---	---	---
Silicon	ppm	**7**	---	---	---
Sodium	ppm	**5**	---	---	---
Potassium	ppm	**<1**	---	---	---

WEAR METALS

Iron	ppm	**12**	---	---	---
Copper	ppm	**17**	---	---	---
Lead	ppm	**0**	---	---	---
Tin	ppm	**0**	---	---	---
Aluminum	ppm	**3**	---	---	---
Chromium	ppm	**28**	---	---	---
Molybdenum	ppm	**0**	---	---	---
Nickel	ppm	**0**	---	---	---
Titanium	ppm	**<1**	---	---	---
Silver	ppm	**0**	---	---	---
Manganese	ppm	**<1**	---	---	---
Vanadium	ppm	**0**	---	---	---

ADDITIVES

Calcium	ppm	**34**	---	---	---
Magnesium	ppm	**0**	---	---	---
Zinc	ppm	**314**	---	---	---
Phosphorus	ppm	**252**	---	---	---
Barium	ppm	**0**	---	---	---
Boron	ppm	**0**	---	---	---

Diagnosis

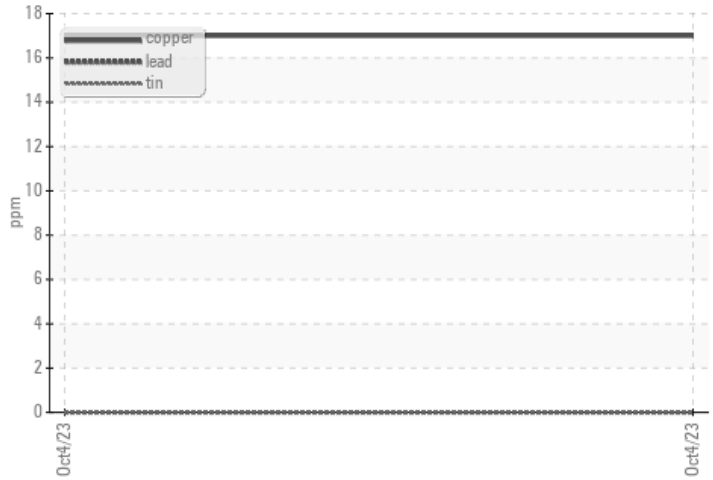
No corrective action is recommended at this time. Resample at the next service interval to monitor.The chromium level is abnormal. All other component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.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

Depot: VOLVO4596
Unique No: 10696841
Signed: Don Baldridge
Report Date: 17 Oct 2023

GRAPHS

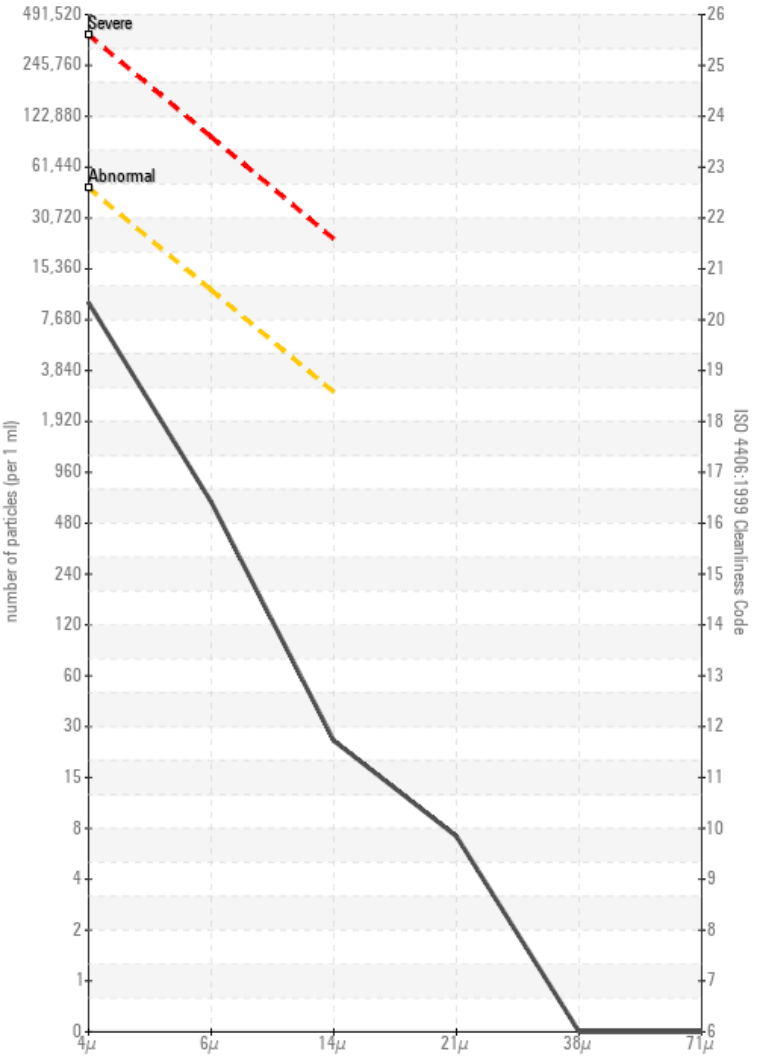
Ferrous Alloys

Non-ferrous Metals



Viscosity @ 40°C

Particle Count



Acid Number