



CONSTRUCTION EQUIPMENT

443969 ATLAS ORG VOLVO EC220E 314134 - HYDRAULIC SYSTEM



Sample No: VCP435647
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 443969 ATLAS ORG



SAMPLE INFORMATION

Sample Number	VCP435647	VCP418343	VCP417240	---
Sample Date	21 Dec 2023	12 Sep 2023	21 Jun 2023	---
Machine Hours	7771	7093	6525	---
Oil Hours	0	0	0	---
Oil Changed	Not Chngd	Not Chngd	Not Chngd	---
Sample Status	ABNORMAL	ABNORMAL	ATTENTION	---

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OIL CONDITION

Visc @ 40°C	cSt	45.0	45.0	45.1	---
Acid Number (AN)	mg KOH/g	0.69	0.39	0.38	---



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Particles >4µm		270381	28493	7367	---
Particles >6µm		97329	3181	1563	---
Particles >14µm		867	23	94	---
ISO 4406:1999 (c)		25/24/17	22/19/12	20/18/14	---
Silicon	ppm	6	6	5	---
Sodium	ppm	5	4	2	---
Potassium	ppm	2	0	<1	---

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. All component wear rates are normal. There is a high amount of particulates 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	21	17	15	---
Copper	ppm	36	29	26	---
Lead	ppm	0	0	0	---
Tin	ppm	0	0	0	---
Aluminum	ppm	1	0	1	---
Chromium	ppm	0	<1	<1	---
Molybdenum	ppm	<1	1	2	---
Nickel	ppm	0	0	0	---
Titanium	ppm	0	<1	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	77	91	87	---
Magnesium	ppm	0	15	10	---
Zinc	ppm	370	376	402	---
Phosphorus	ppm	296	302	337	---
Barium	ppm	0	0	0	---
Boron	ppm	0	0	0	---

Depot: VOLVO0093
Unique No: 10808332
Signed: Don Baldrige
Report Date: 02 Jan 2024

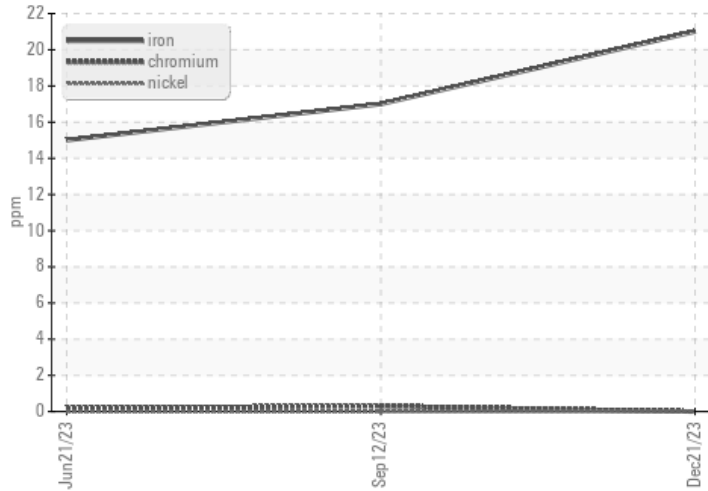


CONSTRUCTION EQUIPMENT

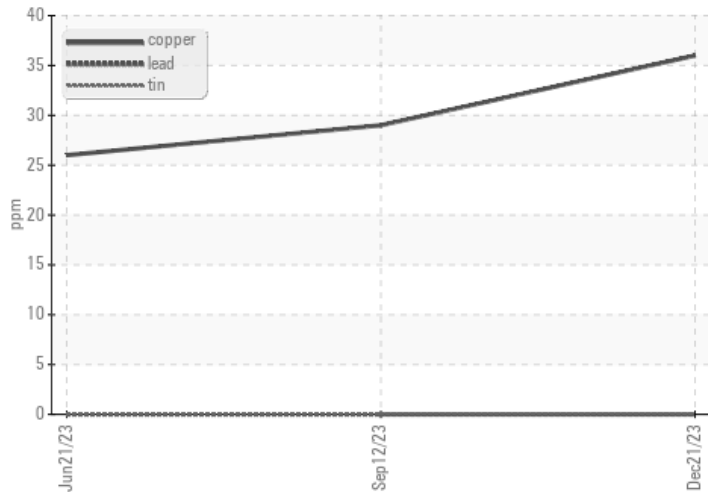


GRAPHS

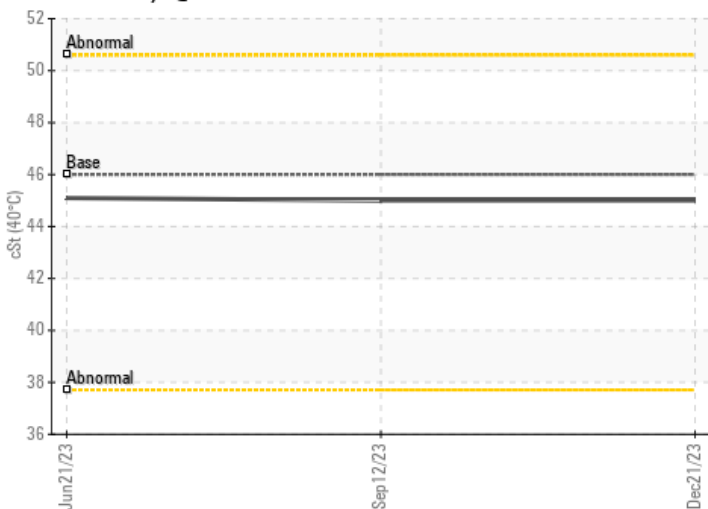
Ferrous Alloys



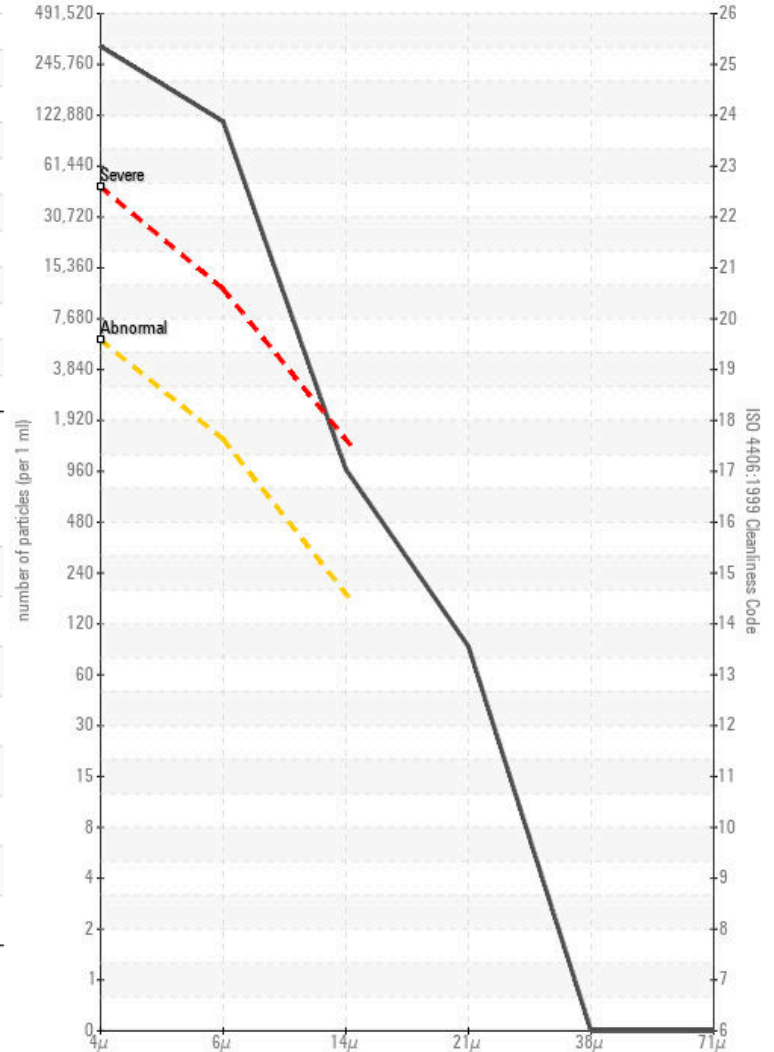
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

