



CONSTRUCTION EQUIPMENT

SWA508892 T&C MOBILE VOLVO EC220E 314443 - HYDRAULIC SYSTEM



Sample No: VCP370873
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SWA508892 T&C MOBILE



SAMPLE INFORMATION

Sample Number	VCP370873	VCP417374	VCP405678	VCP376527
Sample Date	21 Mar 2024	08 Sep 2023	25 Apr 2023	26 Aug 2022
Machine Hours	4766	4261	3763	2623
Oil Hours	766	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	N/A
Sample Status	ABNORMAL	ABNORMAL	NORMAL	NORMAL

ALTA EQUIPMENT

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 SYRACUSE, NY
 US 13206
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OIL CONDITION

Visc @ 40°C	cSt	40.9	40.9	39.9	41.1
Acid Number (AN)	mg KOH/g	0.39	0.37	0.37	0.44



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		---	---	5306	20269
Particles >6µm		---	---	263	1265
Particles >14µm		---	---	7	45
ISO 4406:1999 (c)		---	---	20/15/10	22/17/13
Silicon	ppm	5	8	4	4
Sodium	ppm	<1	<1	0	1
Potassium	ppm	<1	<1	0	0

Diagnosis

We recommend you service the filters on this component. 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	8	14	8	7
Copper	ppm	21	25	23	21
Lead	ppm	0	<1	0	0
Tin	ppm	0	0	0	0
Aluminum	ppm	1	4	1	<1
Chromium	ppm	<1	<1	<1	0
Molybdenum	ppm	0	0	0	0
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	<1	0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	37	42	38	28
Magnesium	ppm	0	0	1	0
Zinc	ppm	364	408	404	390
Phosphorus	ppm	340	368	356	358
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	0

Depot: VOLV00142
Unique No: 10941862
Signed: Don Baldrige
Report Date: 27 Mar 2024

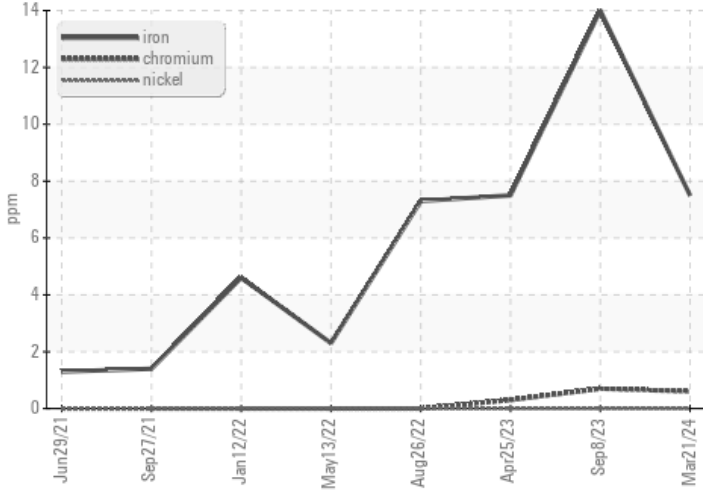


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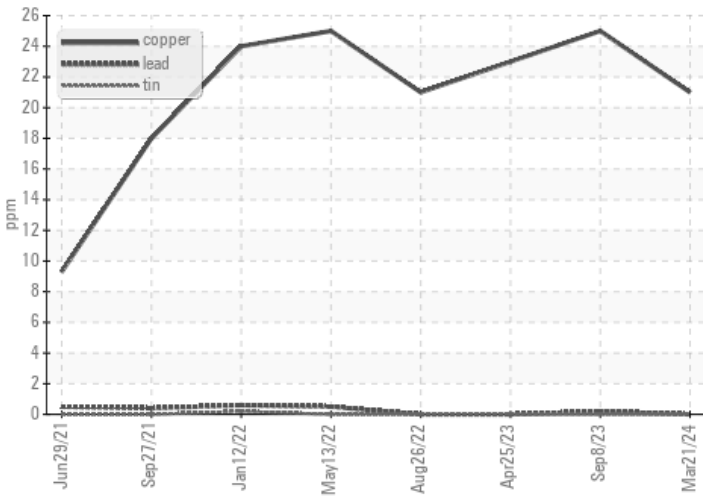


GRAPHS

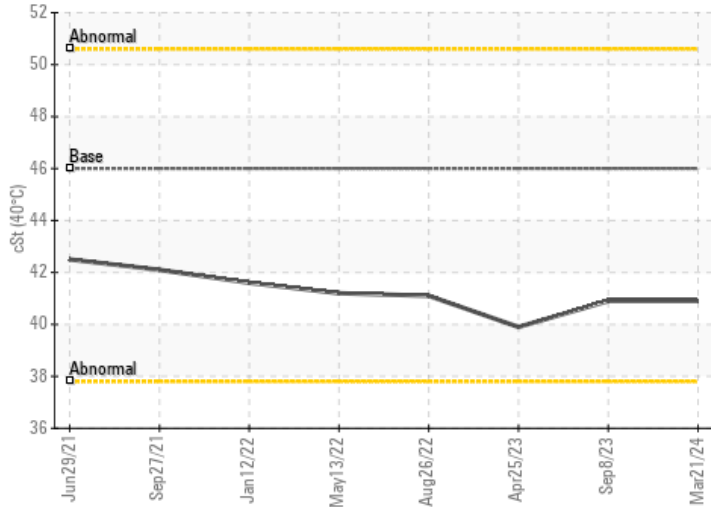
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Acid Number

