



CONSTRUCTION EQUIPMENT

VOLVO EC480 314300 - HYDRAULIC SYSTEM



Sample No: VCP393560
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No:



SAMPLE INFORMATION

Sample Number	VCP393560	VCP355703	VCP315516	VCP307827
Sample Date	08 May 2023	27 May 2022	24 Jun 2021	26 Mar 2021
Machine Hours	5393	4025	2062	1549
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Changed	Not Chngd	Not Chngd
Sample Status	ABNORMAL	NORMAL	ABNORMAL	ATTENTION

FIVE STONES MINE
MORNING STAR FARM RD
CANAL POINT, FL
US 33430
Contact: Service Manager

OIL CONDITION

Visc @ 40°C	cSt	40.9	41.9	44.9	42.8
Acid Number (AN)	mg KOH/g	0.45	0.49	0.464	0.510

T:
F:

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		---	18127	---	41240
Particles >6µm		---	3916	---	6981
Particles >14µm		---	198	---	94
ISO 4406:1999 (c)		---	21/19/15	---	23/20/14
Silicon	ppm	9	7	4	4
Sodium	ppm	<1	0	<1	2
Potassium	ppm	<1	1	0	<1

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 metal particles present in this sample. Moderate concentration of visible metal present. All component wear rates are normal. No other contaminants were detected in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

WEAR METALS

Iron	ppm	7	3	3	2
Copper	ppm	19	23	15	12
Lead	ppm	<1	<1	<1	<1
Tin	ppm	0	<1	0	0
Aluminum	ppm	<1	1	0	<1
Chromium	ppm	1	<1	<1	<1
Molybdenum	ppm	1	0	<1	<1
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	<1	0	<1
Manganese	ppm	0	0	0	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

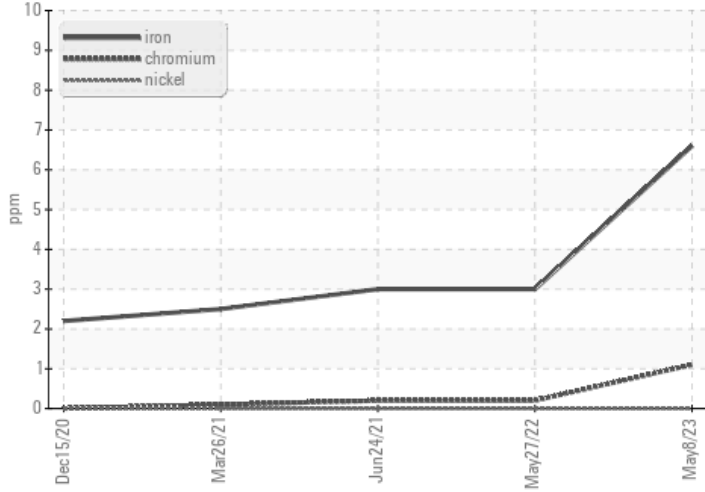
Calcium	ppm	72	55	71	76
Magnesium	ppm	8	0	0	0
Zinc	ppm	428	403	465	483
Phosphorus	ppm	374	394	363	384
Barium	ppm	0	0	0	0
Boron	ppm	0	0	1	<1

Depot: FIVCAN
Unique No: 10468469
Signed: Don Baldrige
Report Date: 14 May 2023

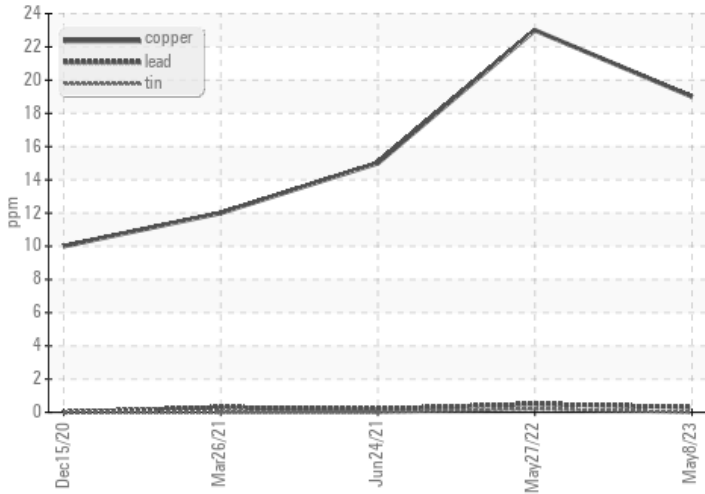


VOLVO GRAPHS

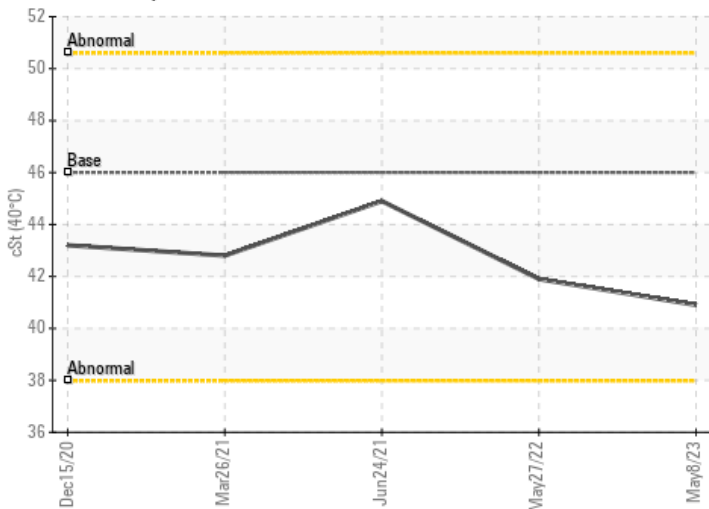
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Acid Number

