



CONSTRUCTION EQUIPMENT

TRIPLE M 379603 VOLVO EC380EL VCE380EJ003 10375 - HYDRAULIC SYSTEM



Sample No: VCP380165
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 379603



SAMPLE INFORMATION

Sample Number	VCP380165	VCP332502	VCP035788	VCP252292
Sample Date	11 Oct 2023	08 Apr 2022	11 Jun 2021	24 Mar 2020
Machine Hours	12519	10494	8744	6535
Oil Hours	12519	0	0	1500
Oil Changed	Not Chngd	Changed	Changed	Not Chngd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

STRONGCO EQUIPMENT (CE)

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OIL CONDITION

Visc @ 40°C	cSt	44.3	43.0	44.4	43.7
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CONTAMINATION

Particles >4µm	1721	17033	15804	32909	
Particles >6µm	195	1403	2062	3294	
Particles >14µm	10	64	157	78	
ISO 4406:1999 (c)	18/15/10	21/18/13	21/18/14	22/19/13	
Silicon	ppm	<1	1	1	2
Sodium	ppm	<1	<1	<1	0
Potassium	ppm	0	<1	<1	<1

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	4	8	5	6
Copper	ppm	19	15	18	16
Lead	ppm	1	<1	2	1
Tin	ppm	0	0	<1	0
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	1	4	4	5
Molybdenum	ppm	0	0	<1	0
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	0	0	0	<1
Silver	ppm	<1	0	<1	<1
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	45	42	41	57
Magnesium	ppm	<1	2	1	<1
Zinc	ppm	409	382	417	496
Phosphorus	ppm	324	344	359	422
Barium	ppm	<1	0	0	<1
Boron	ppm	<1	<1	<1	1

Depot: VOLV00252
Unique No: 5658739
Signed: Wes Davis
Report Date: 18 Oct 2023

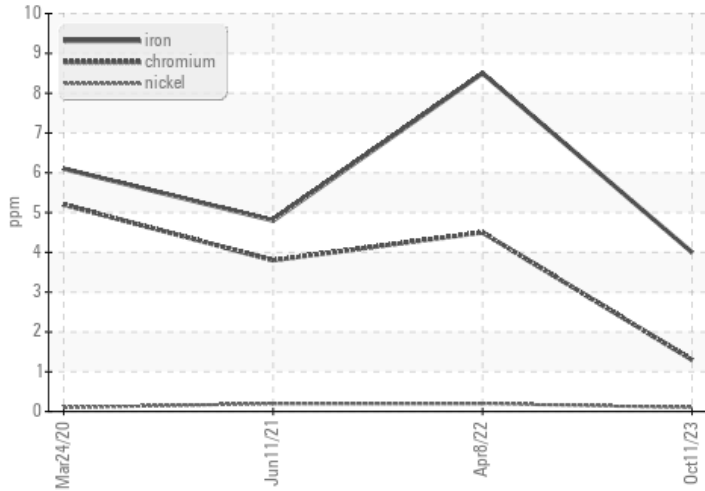


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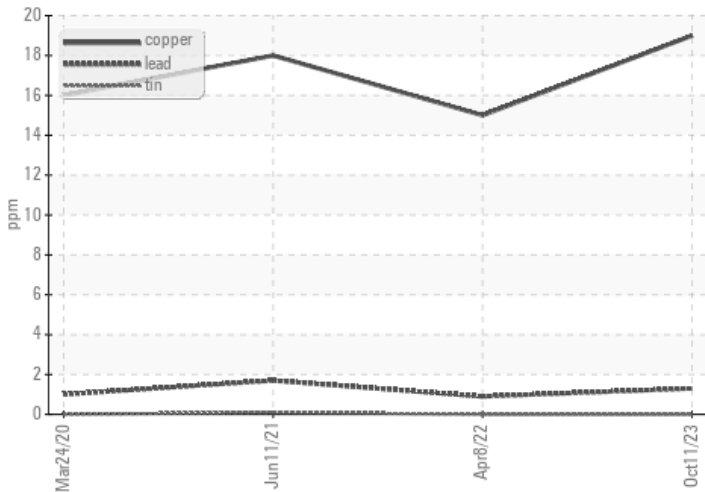


GRAPHS

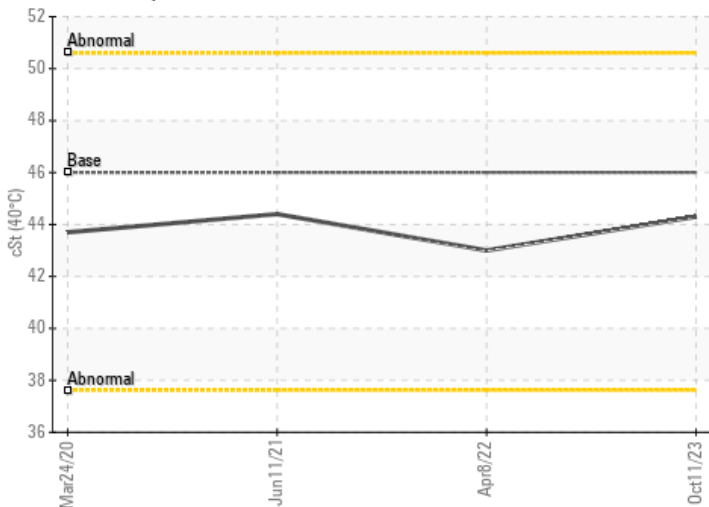
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

