



CONSTRUCTION EQUIPMENT

412922 BULK EXPR VOLVO L180H 5391 - HYDRAULIC SYSTEM



Sample No: VCP432746
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 412922 BULK EXPR



SAMPLE INFORMATION

Sample Number	VCP432746	VCP434882	VCP417234	VCP411677
Sample Date	10 Nov 2023	14 Sep 2023	19 Jul 2023	26 May 2023
Machine Hours	4791	3966	3194	2710
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Changed	Not Changd	Not Changd
Sample Status	NORMAL	ATTENTION	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	43.4	43.0	43.4	43.5
Acid Number (AN)	mg KOH/g	0.28	0.34	0.46	0.39



CONTAMINATION

Particles >4µm	1972	6262	2129	1108
Particles >6µm	674	1238	604	208
Particles >14µm	63	73	40	11
ISO 4406:1999 (c)	18/17/13	20/17/13	18/16/12	17/15/11
Silicon	ppm	1	2	2
Sodium	ppm	0	3	0
Potassium	ppm	2	0	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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



WEAR METALS

Iron	ppm	3	4	3	2
Copper	ppm	3	6	6	6
Lead	ppm	1	1	2	1
Tin	ppm	0	<1	0	0
Aluminum	ppm	<1	0	0	0
Chromium	ppm	<1	1	<1	<1
Molybdenum	ppm	<1	0	<1	0
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	<1	0
Manganese	ppm	0	<1	0	0
Vanadium	ppm	0	0	0	0



ADDITIVES

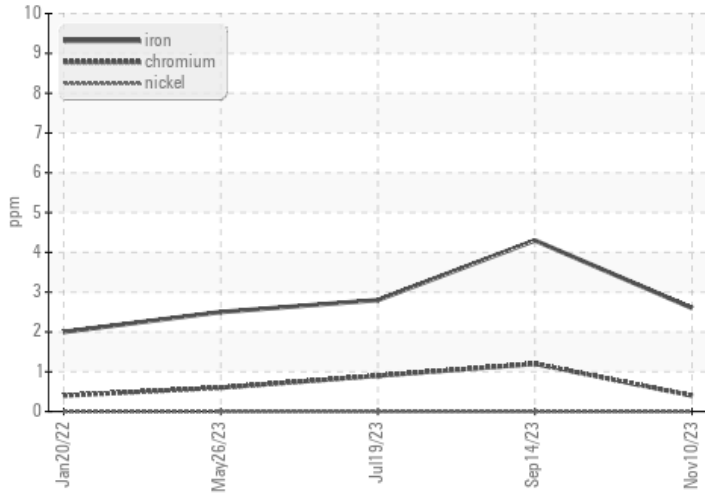
Calcium	ppm	59	39	44	39
Magnesium	ppm	6	2	6	<1
Zinc	ppm	396	382	407	408
Phosphorus	ppm	321	301	312	315
Barium	ppm	7	0	<1	0
Boron	ppm	0	0	0	0

Depot: VOLVO0096
Unique No: 10743352
Signed: Wes Davis
Report Date: 17 Nov 2023

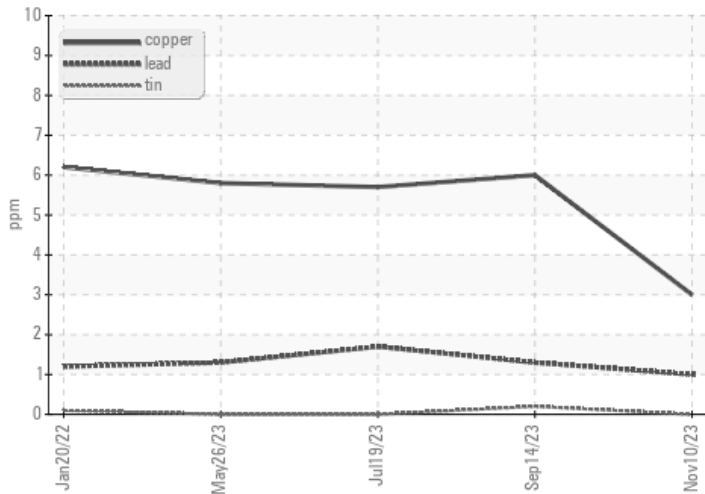


GRAPHS

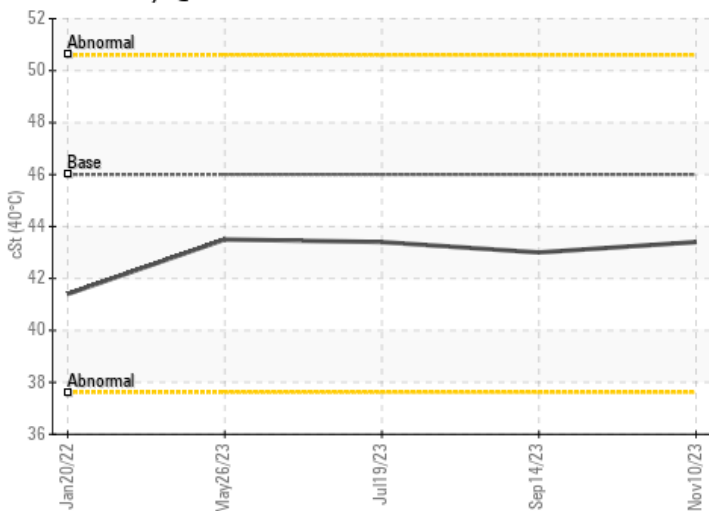
Ferrous Alloys



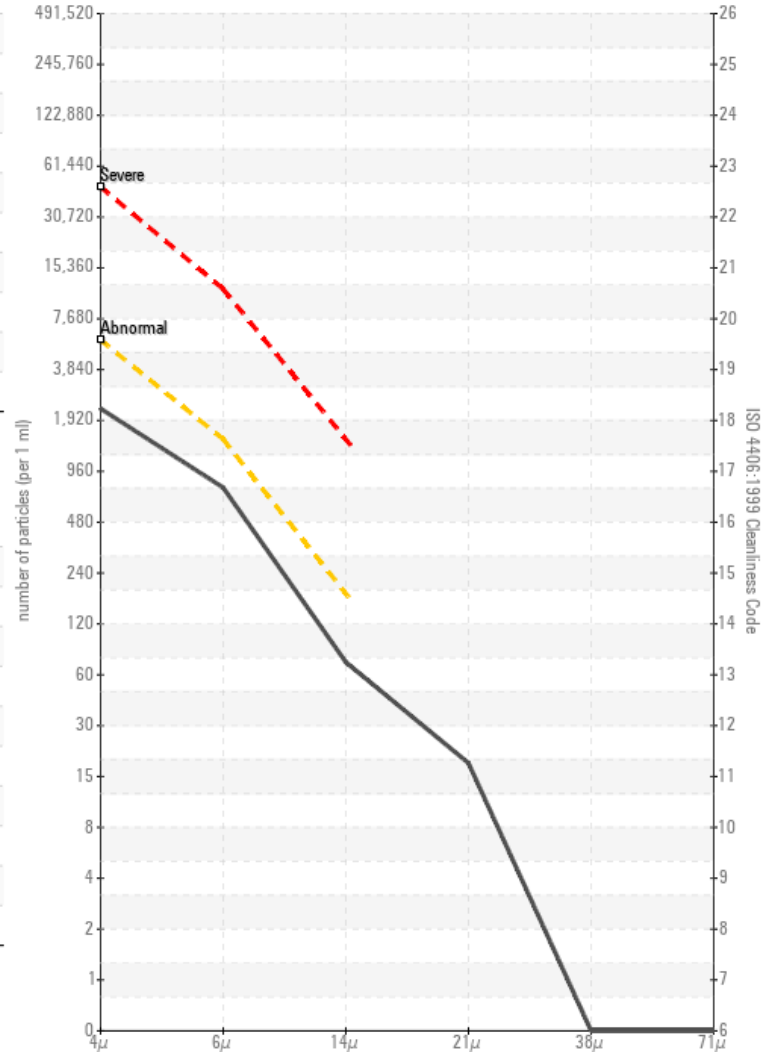
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

