



CONSTRUCTION EQUIPMENT

19612 VORTEX DRAINAG VOLVO EC220E 314524 - HYDRAULIC SYSTEM



Sample No: VCP415495
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 19612 VORTEX DRAINAG



SAMPLE INFORMATION

Sample Number	VCP415495	VCP05692509	VCP375880	VCP317782
Sample Date	12 Sep 2023	13 Nov 2022	31 May 2022	24 Feb 2022
Machine Hours	1497	978	672	394
Oil Hours	1497	0	0	0
Oil Changed	Not Changd	N/A	N/A	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	42.2	42.6	43.0	44.9
Acid Number (AN)	mg KOH/g	0.48	0.46	0.45	0.41



CONTAMINATION

Particles >4µm	118	2094	3347	1383	
Particles >6µm	41	419	639	149	
Particles >14µm	7	29	35	6	
ISO 4406:1999 (c)	14/13/10	18/16/12	19/16/12	18/14/10	
Silicon	ppm	4	2	3	1
Sodium	ppm	<1	<1	<1	0
Potassium	ppm	0	0	0	0

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	2	<1	0
Copper	ppm	23	18	16	0
Lead	ppm	0	0	0	0
Tin	ppm	<1	0	0	0
Aluminum	ppm	0	0	0	0
Chromium	ppm	0	0	0	0
Molybdenum	ppm	0	0	0	0
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	0	0	0
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	71	70	74	69
Magnesium	ppm	0	0	0	<1
Zinc	ppm	505	451	512	443
Phosphorus	ppm	404	373	399	376
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	0

Depot: VOLVO8769
Unique No: 10662400
Signed: Wes Davis
Report Date: 27 Sep 2023

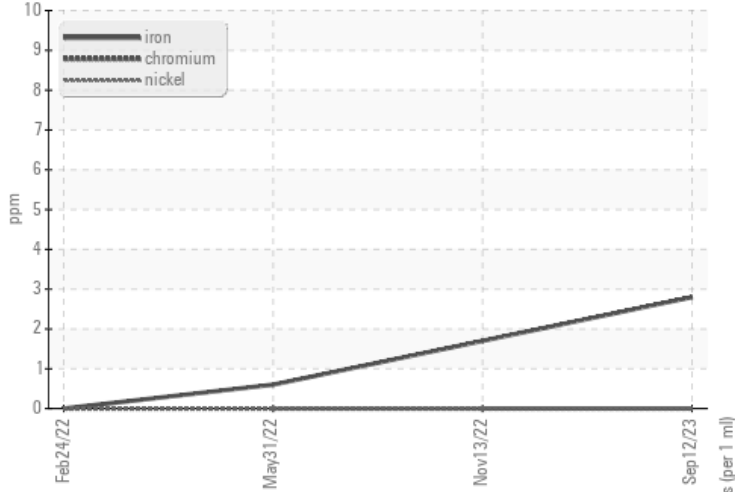


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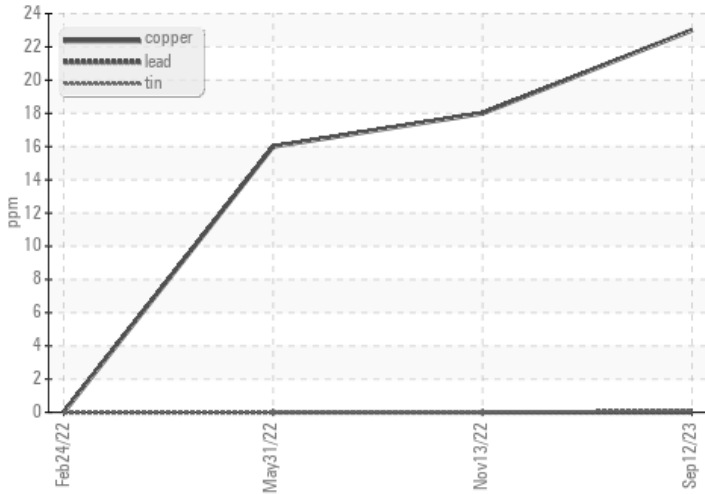


GRAPHS

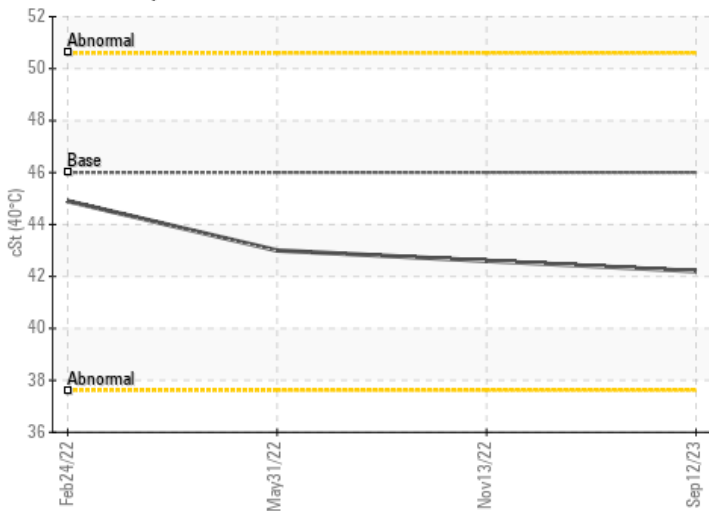
Ferrous Alloys



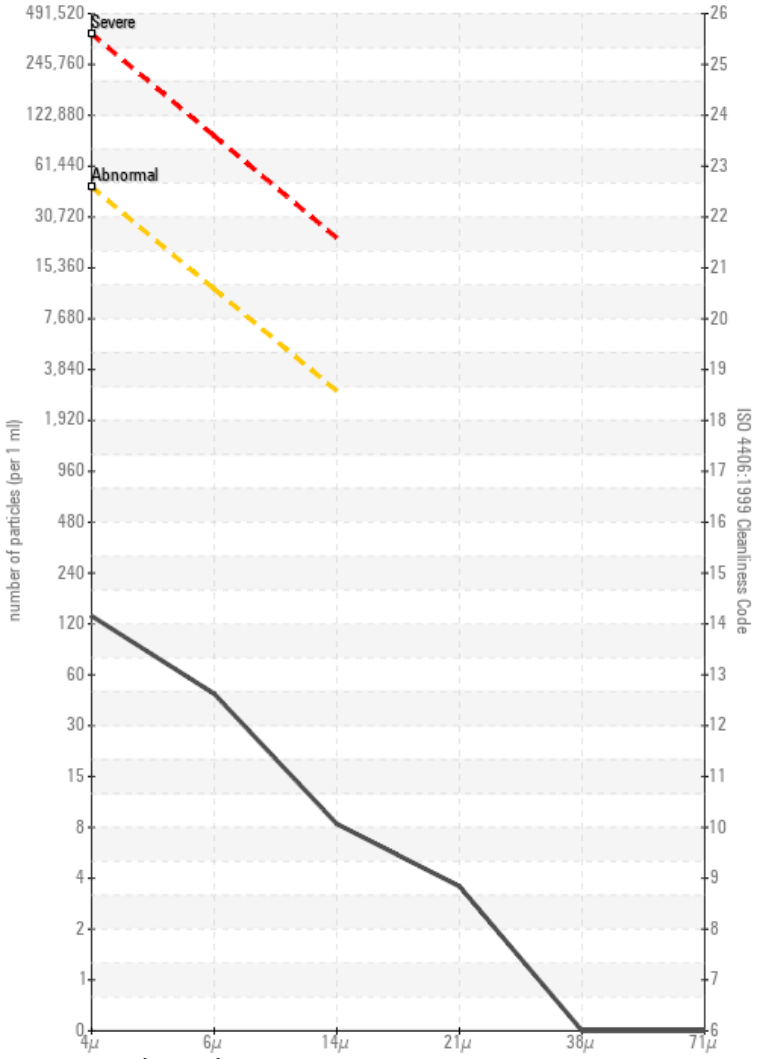
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

