



CONSTRUCTION EQUIPMENT

716240 BULK EXPRESS VOLVO L180H 5391 - HYDRAULIC SYSTEM



Sample No: VCP447389
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 716240 BULK EXPRESS



SAMPLE INFORMATION

Sample Number	VCP447389	VCP438401	VCP440264	VCP432746
Sample Date	14 May 2024	23 Mar 2024	26 Dec 2023	10 Nov 2023
Machine Hours	6290	5788	5286	4791
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Not Chngd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	42.4	42.9	53.3	43.4
Acid Number (AN)	mg KOH/g	0.37	0.38	0.49	0.28



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		3936	3342	1966	1972
Particles >6µm		1157	677	479	674
Particles >14µm		88	43	32	63
ISO 4406:1999 (c)		19/17/14	19/17/13	18/16/12	18/17/13
Silicon	ppm	2	<1	1	1
Sodium	ppm	1	1	4	0
Potassium	ppm	<1	0	3	2

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	4	3	1	3
Copper	ppm	3	3	3	3
Lead	ppm	<1	0	0	1
Tin	ppm	0	0	0	0
Aluminum	ppm	0	0	0	<1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	<1	<1	0	<1
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	67	64	45	59
Magnesium	ppm	5	0	0	6
Zinc	ppm	423	412	393	396
Phosphorus	ppm	331	318	304	321
Barium	ppm	0	0	0	7
Boron	ppm	0	0	0	0

Depot: VOLVO0096
Unique No: 11035551
Signed: Wes Davis
Report Date: 21 May 2024

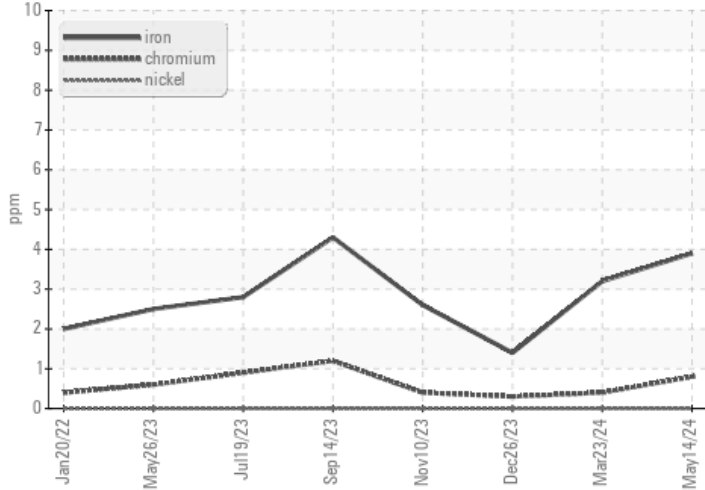


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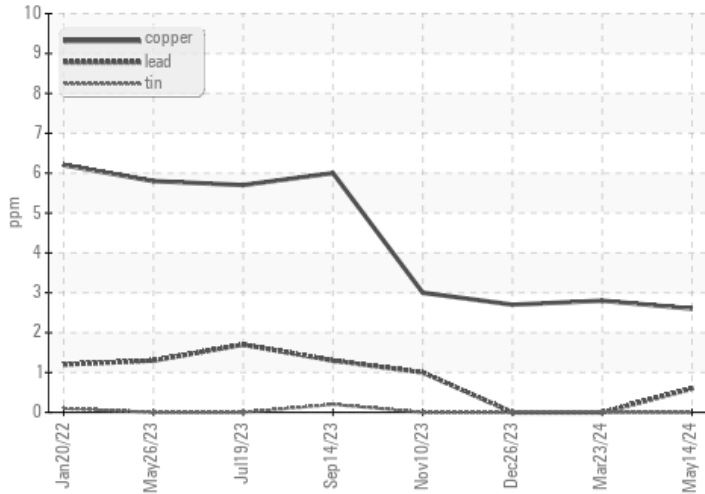


VOLVO GRAPHS

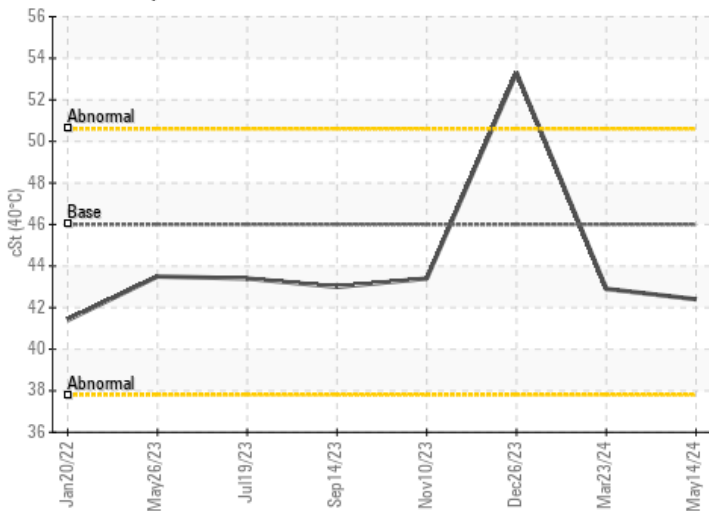
Ferrous Alloys



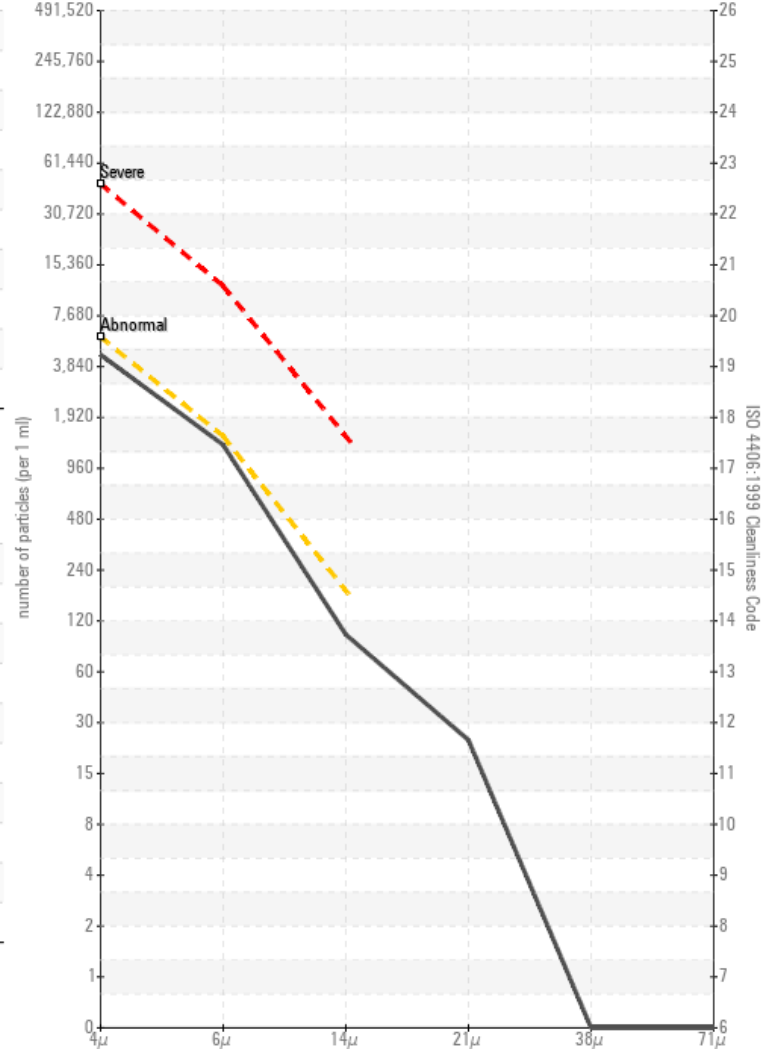
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

