



CONSTRUCTION EQUIPMENT

BULK EXPRESS VOLVO L180H 5391 - HYDRAULIC SYSTEM



Sample No: VCP440264
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: BULK EXPRESS



SAMPLE INFORMATION

Sample Number	VCP440264	VCP432746	VCP434882	VCP417234
Sample Date	26 Dec 2023	10 Nov 2023	14 Sep 2023	19 Jul 2023
Machine Hours	5286	4791	3966	3194
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Changed	Not Chngd
Sample Status	NORMAL	NORMAL	ATTENTION	NORMAL



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OIL CONDITION

Visc @ 40°C	cSt	53.3	43.4	43.0	43.4
Acid Number (AN)	mg KOH/g	0.49	0.28	0.34	0.46



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		1966	1972	6262	2129
Particles >6µm		479	674	1238	604
Particles >14µm		32	63	73	40
ISO 4406:1999 (c)		18/16/12	18/17/13	20/17/13	18/16/12
Silicon	ppm	1	1	2	2
Sodium	ppm	4	0	3	0
Potassium	ppm	3	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	1	3	4	3
Copper	ppm	3	3	6	6
Lead	ppm	0	1	1	2
Tin	ppm	0	0	<1	0
Aluminum	ppm	0	<1	0	0
Chromium	ppm	<1	<1	1	<1
Molybdenum	ppm	0	<1	0	<1
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	0	<1	0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	45	59	39	44
Magnesium	ppm	0	6	2	6
Zinc	ppm	393	396	382	407
Phosphorus	ppm	304	321	301	312
Barium	ppm	0	7	0	<1
Boron	ppm	0	0	0	0

Depot: VOLVO0096
Unique No: 10808333
Signed: Don Baldrige
Report Date: 02 Jan 2024

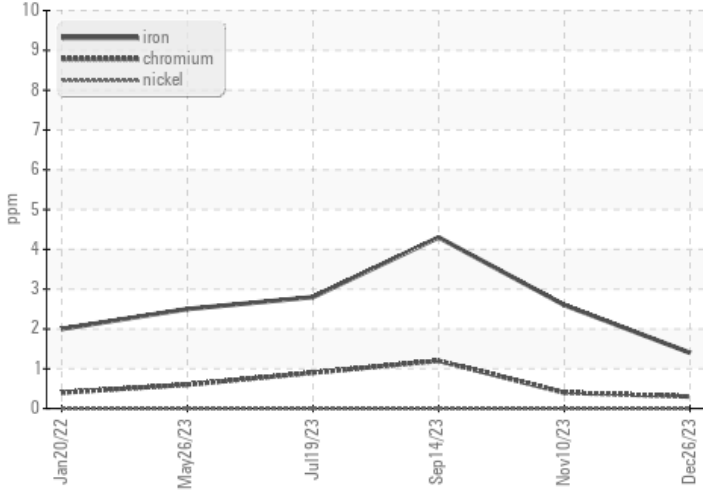


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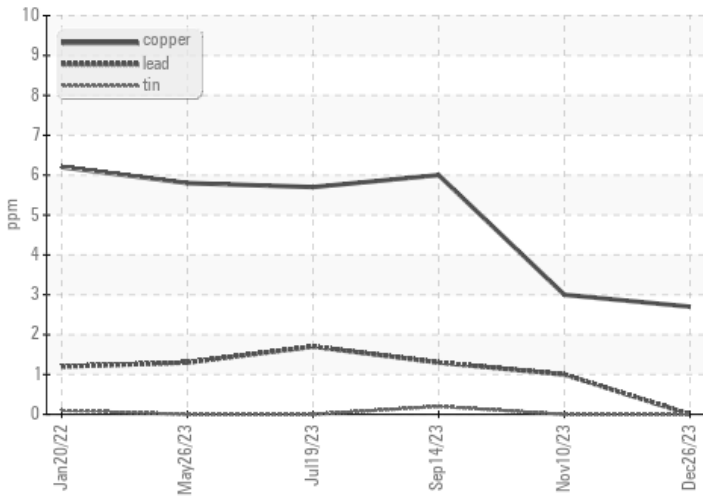


GRAPHS

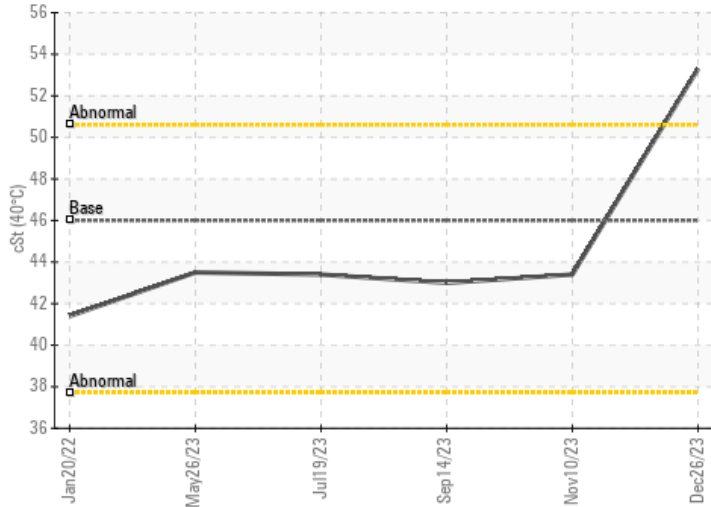
Ferrous Alloys



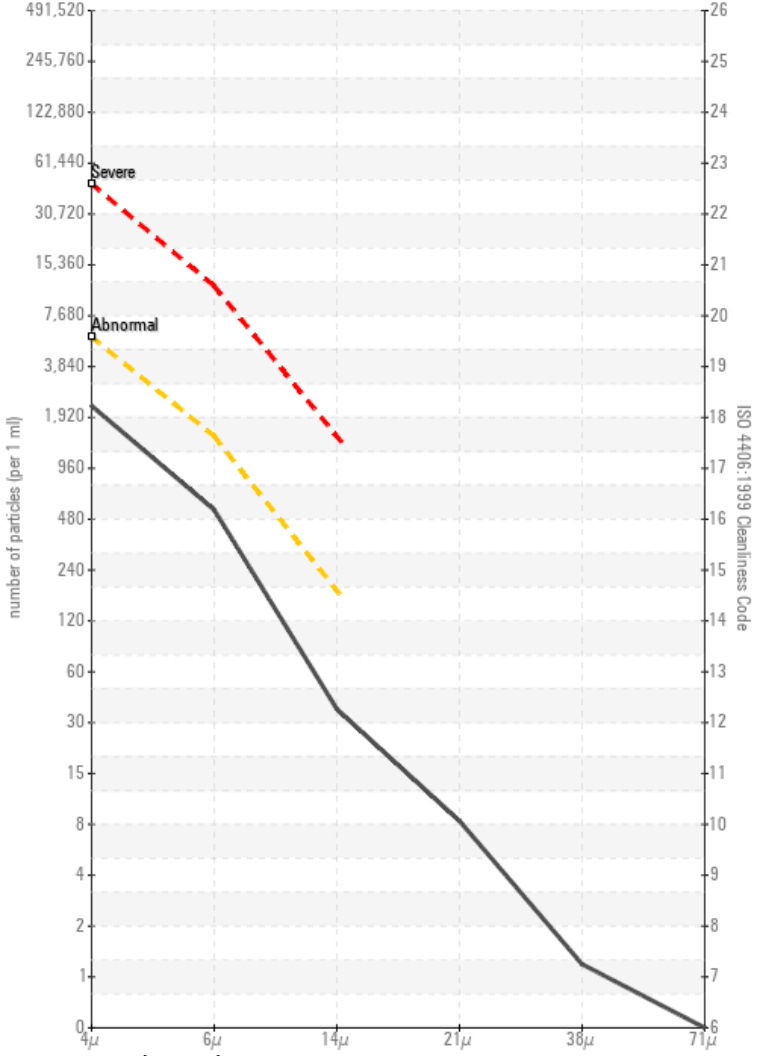
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

