



CONSTRUCTION EQUIPMENT

TRANSPORT LEASING VOLVO L220H 2268 - HYDRAULIC SYSTEM



Sample No: VCP439709
Oil Type: MOBIL HYDRAULIC OIL AW 46
Job No: TRANSPORT LEASING



SAMPLE INFORMATION

Sample Number	VCP439709	VCP382212	VCP356744	VCP341674
Sample Date	28 Mar 2024	03 Oct 2023	11 Apr 2022	28 Jan 2022
Machine Hours	24936	22421	18981	18124
Oil Hours	0	0	0	4000
Oil Changed	Changed	Changed	Not Changd	Changed
Sample Status	NORMAL	SEVERE	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	43.4	42.4	42.0	42.3
Acid Number (AN)	mg KOH/g	0.36	0.46	0.47	0.59



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		4662	46904	4535	2609
Particles >6µm		328	18396	1156	619
Particles >14µm		21	3029	97	57
ISO 4406:1999 (c)		19/16/12	23/21/19	19/17/14	19/16/13
Silicon	ppm	6	8	3	5
Sodium	ppm	0	4	1	7
Potassium	ppm	2	<1	2	<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	7	6	15
Copper	ppm	5	1	1	2
Lead	ppm	1	0	<1	<1
Tin	ppm	2	0	<1	<1
Aluminum	ppm	1	2	2	1
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	2	2	3	3
Nickel	ppm	<1	0	0	0
Titanium	ppm	<1	0	<1	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	290	228	271	312
Magnesium	ppm	11	23	28	27
Zinc	ppm	483	480	553	517
Phosphorus	ppm	424	382	419	415
Barium	ppm	<1	0	0	0
Boron	ppm	5	4	8	6

Depot: VOLVO1835
Unique No: 10977332
Signed: Wes Davis
Report Date: 15 Apr 2024

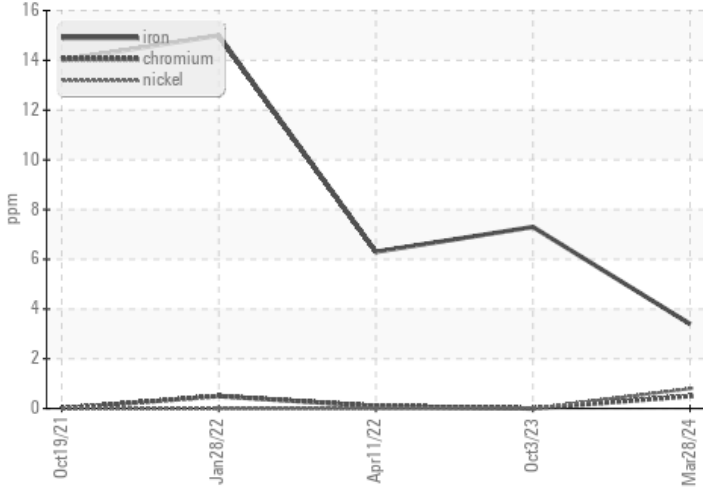


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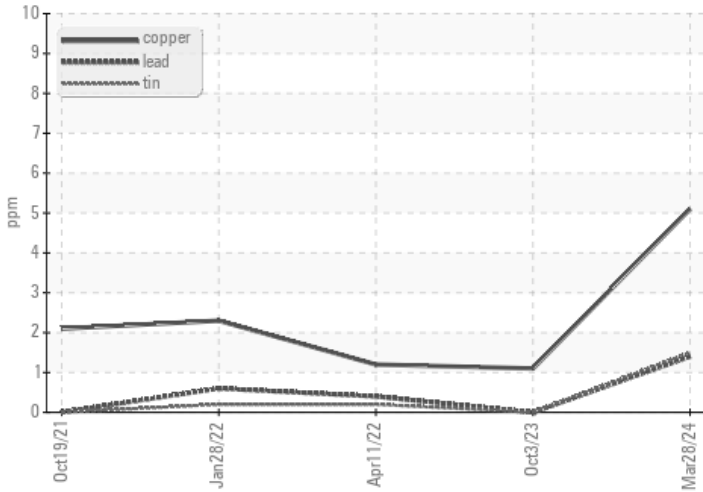


GRAPHS

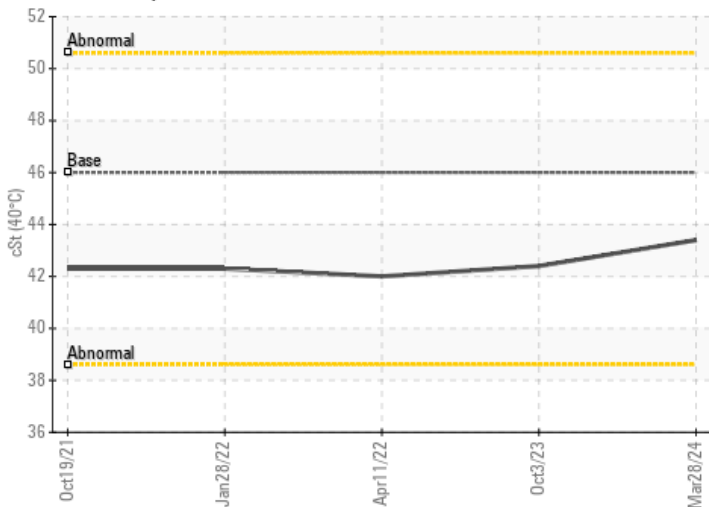
Ferrous Alloys



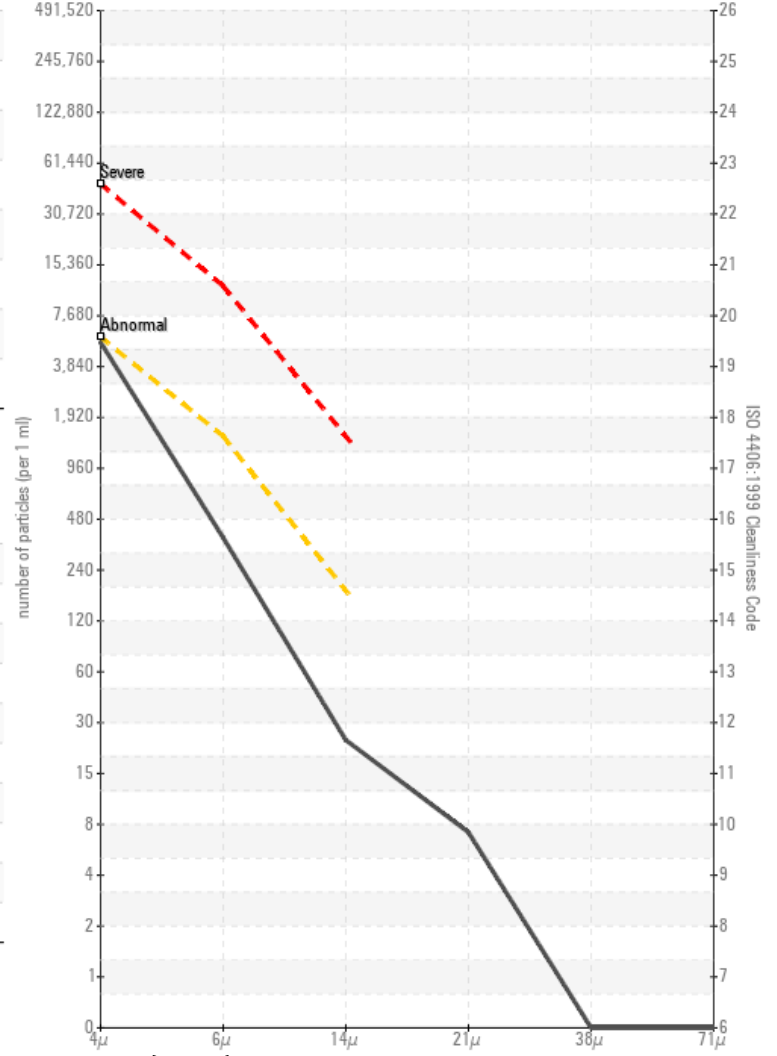
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

