



CONSTRUCTION EQUIPMENT

TRANSPORT LEASING VOLVO L220H 2268 - HYDRAULIC SYSTEM



Sample No: VCP382212
Oil Type: MOBIL HYDRAULIC OIL AW 46
Job No: TRANSPORT LEASING



SAMPLE INFORMATION

Sample Number	VCP382212	VCP356744	VCP341674	VCP272927
Sample Date	03 Oct 2023	11 Apr 2022	28 Jan 2022	19 Oct 2021
Machine Hours	22421	18981	18124	16745
Oil Hours	0	0	4000	0
Oil Changed	Changed	Not Changd	Changed	Not Changd
Sample Status	SEVERE	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	42.4	42.0	42.3	42.3
Acid Number (AN)	mg KOH/g	0.46	0.47	0.59	0.718



CONTAMINATION

Particles >4µm	46904	4535	2609	1942	
Particles >6µm	18396	1156	619	426	
Particles >14µm	3029	97	57	43	
ISO 4406:1999 (c)	23/21/19	19/17/14	19/16/13	18/16/13	
Silicon	ppm	8	3	5	5
Sodium	ppm	4	1	7	7
Potassium	ppm	<1	2	<1	0



WEAR METALS

Iron	ppm	7	6	15	14
Copper	ppm	1	1	2	2
Lead	ppm	0	<1	<1	0
Tin	ppm	0	<1	<1	0
Aluminum	ppm	2	2	1	2
Chromium	ppm	0	<1	<1	0
Molybdenum	ppm	2	3	3	3
Nickel	ppm	0	0	0	0
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	0	<1	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	228	271	312	307
Magnesium	ppm	23	28	27	20
Zinc	ppm	480	553	517	447
Phosphorus	ppm	382	419	415	379
Barium	ppm	0	0	0	0
Boron	ppm	4	8	6	6

Diagnosis

We advise that you check all areas where contaminants can enter the system. The oil change at the time of sampling has been noted. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation. All component wear rates are normal. There is a high amount of particulates (2 to 100 microns in size) present in the oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Depot: VOLVO1835
Unique No: 10699627
Signed: Wes Davis
Report Date: 19 Oct 2023

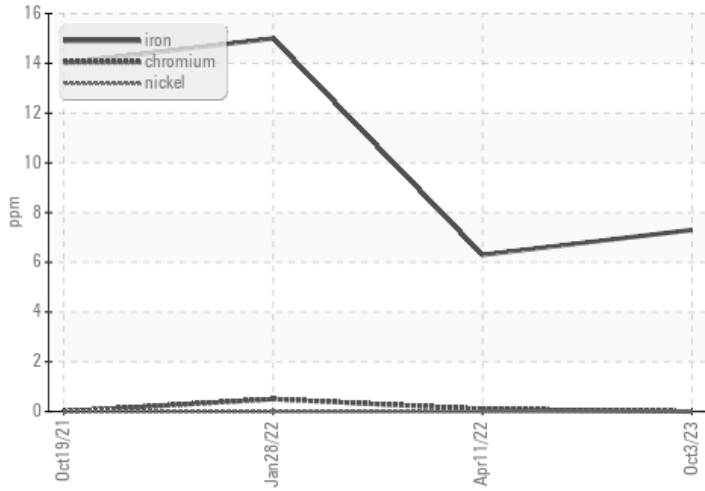


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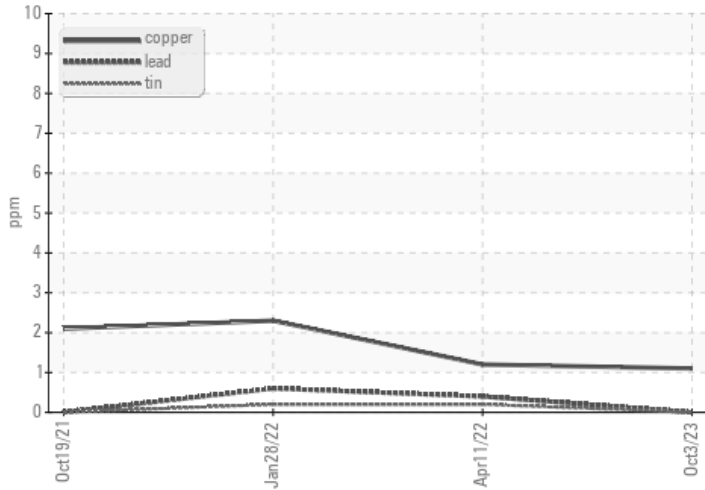


GRAPHS

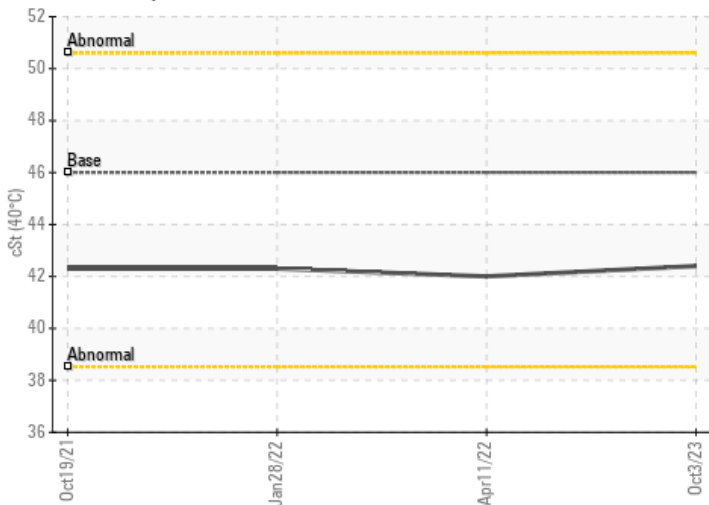
Ferrous Alloys



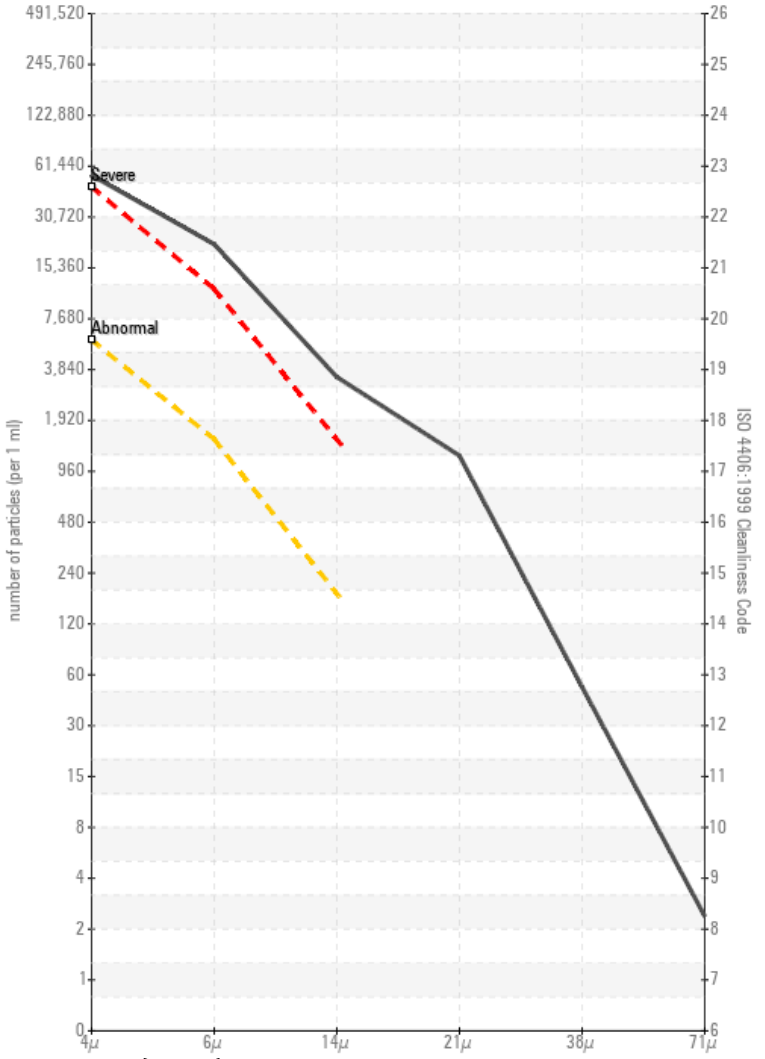
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

