



CONSTRUCTION EQUIPMENT

VOLVO L110H 05632247 - HYDRAULIC SYSTEM



Sample No: VCP443991
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No:



SAMPLE INFORMATION

Sample Number	VCP443991	VCP436460	VCP438672	VCP407159
Sample Date	11 Jun 2024	09 Apr 2024	12 Feb 2024	16 Oct 2023
Machine Hours	7473	6919	0	5396
Oil Hours	0	1523	0	0
Oil Changed	Changed	Not Chngd	Changed	Changed
Sample Status	NORMAL	ABNORMAL	ABNORMAL	NORMAL

CITY CARTING
 221 OLD GATE LN
 MILFORD, CT
 US 06460
 Contact: TAVINS BANKS
 tavins@citycart.net
 T: (203)223-3885
 F:



OIL CONDITION

Visc @ 40°C	cSt	40.9	40.9	41.1	42.3
Acid Number (AN)	mg KOH/g	0.79	0.97	1.00	0.24



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		217	6189	27122	1181
Particles >6µm		57	2049	8524	165
Particles >14µm		6	172	543	11
ISO 4406:1999 (c)		15/13/10	20/18/15	22/20/16	17/15/11
Silicon	ppm	4	3	6	4
Sodium	ppm	3	4	3	0
Potassium	ppm	2	<1	3	2

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



WEAR METALS

Iron	ppm	3	4	3	8
Copper	ppm	5	4	4	3
Lead	ppm	2	<1	2	2
Tin	ppm	0	<1	<1	0
Aluminum	ppm	<1	0	1	2
Chromium	ppm	3	2	2	3
Molybdenum	ppm	45	37	44	18
Nickel	ppm	0	0	<1	0
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	<1	0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1448	1353	1393	811
Magnesium	ppm	140	118	137	58
Zinc	ppm	804	627	812	633
Phosphorus	ppm	683	593	688	508
Barium	ppm	0	<1	0	3
Boron	ppm	35	32	38	16

Depot: CITMILCON
Unique No: 11099333
Signed: Don Baldrige
Report Date: 27 Jun 2024

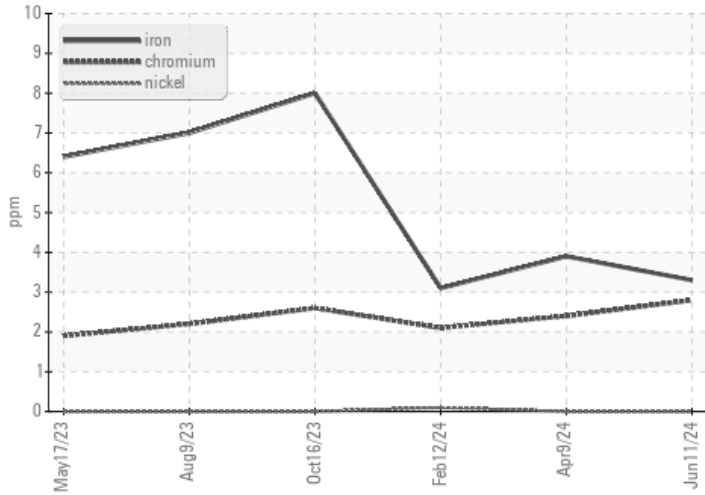


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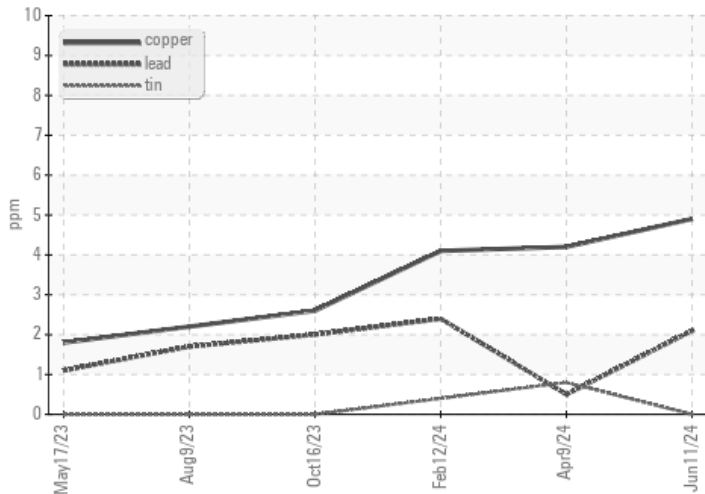


VOLVO GRAPHS

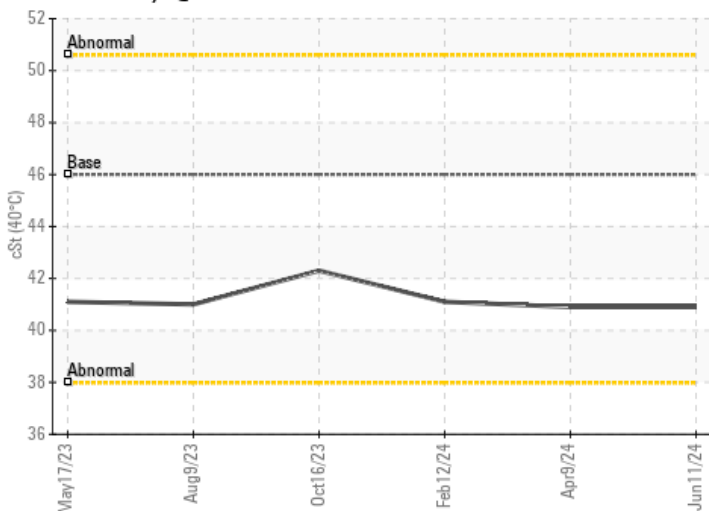
Ferrous Alloys



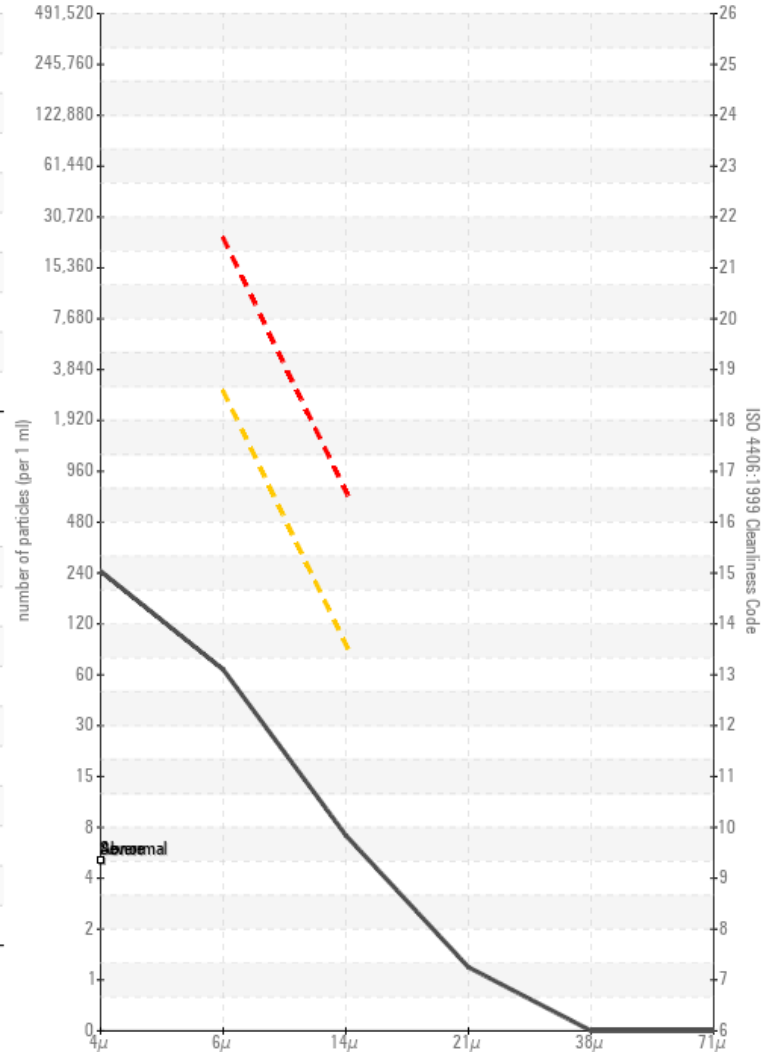
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

