CONSTRUCTION EQUIPMENT
VOLVO L110H 05632247 - HYDRAULIC SYSTEM

Sample No: VCP436460
Oil Type: VALVOLINE ALLFLEET 10W
Job No:

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

SAMPLE INFORMATION

Sample Number		**VCP436460**	VCP438672	VCP407159	VCP407934
Sample Date		**09 Apr 2024**	12 Feb 2024	16 Oct 2023	09 Aug 2023
Machine Hours		**6919**	0	5396	4793
Oil Hours		**1523**	0	0	0
Oil Changed		**Not Changd**	Changed	Changed	Not Changd
Sample Status		**ABNORMAL**	ABNORMAL	NORMAL	NORMAL

OIL CONDITION

Visc @ 40°C	cSt	**40.9**	41.1	42.3	41.0
Acid Number (AN)	mg KOH/g	**0.97**	1.00	0.24	0.42

CONTAMINATION

Water	%	**NEG**	NEG	NEG	NEG
Particles >4µm		**6189**	27122	1181	2040
Particles >6µm		**2049**	▲ 8524	165	432
Particles >14µm		▲ **172**	▲ 543	11	48
ISO 4406:1999 (c)		**20/18/15**	22/20/16	17/15/11	18/16/13
Silicon	ppm	**3**	6	4	3
Sodium	ppm	**4**	3	0	0
Potassium	ppm	**<1**	3	2	<1

WEAR METALS

Iron	ppm	**4**	3	8	7
Copper	ppm	**4**	4	3	2
Lead	ppm	**<1**	2	2	2
Tin	ppm	**<1**	<1	0	0
Aluminum	ppm	**0**	1	2	<1
Chromium	ppm	**2**	2	3	2
Molybdenum	ppm	**37**	44	18	17
Nickel	ppm	**0**	<1	0	0
Titanium	ppm	**0**	0	<1	0
Silver	ppm	**0**	0	0	0
Manganese	ppm	**0**	<1	0	0
Vanadium	ppm	**0**	0	0	0

ADDITIVES

Calcium	ppm	**1353**	1393	811	800
Magnesium	ppm	**118**	137	58	58
Zinc	ppm	**627**	812	633	615
Phosphorus	ppm	**593**	688	508	505
Barium	ppm	**<1**	0	3	0
Boron	ppm	**32**	38	16	15

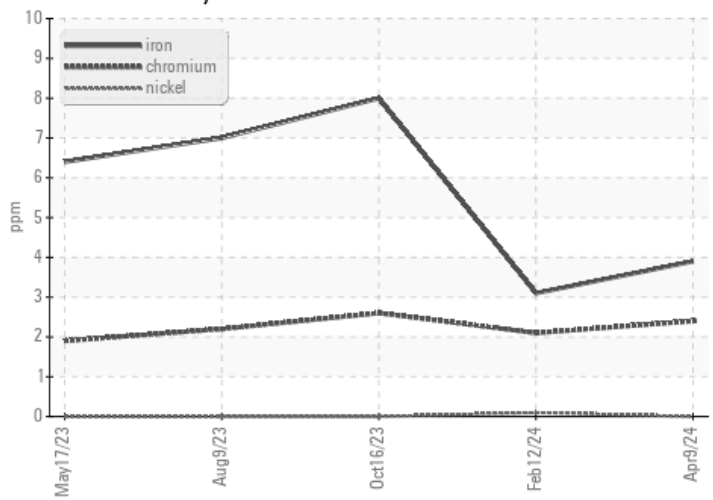
Diagnosis

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition.All component wear rates are normal. There is a moderate 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.

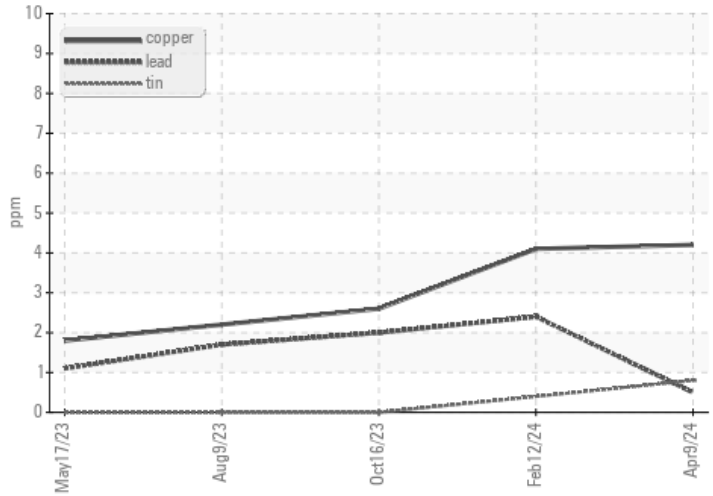
Depot: CITMILCON
Unique No: 10980326
Signed: Wes Davis
Report Date: 17 Apr 2024

GRAPHS

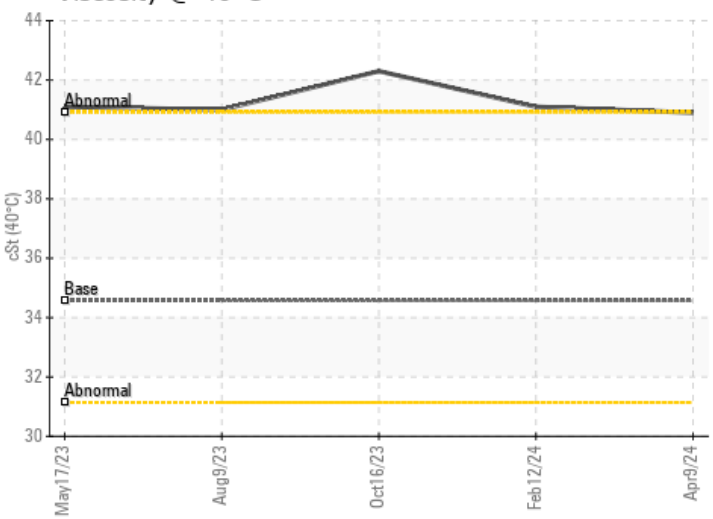
Ferrous Alloys



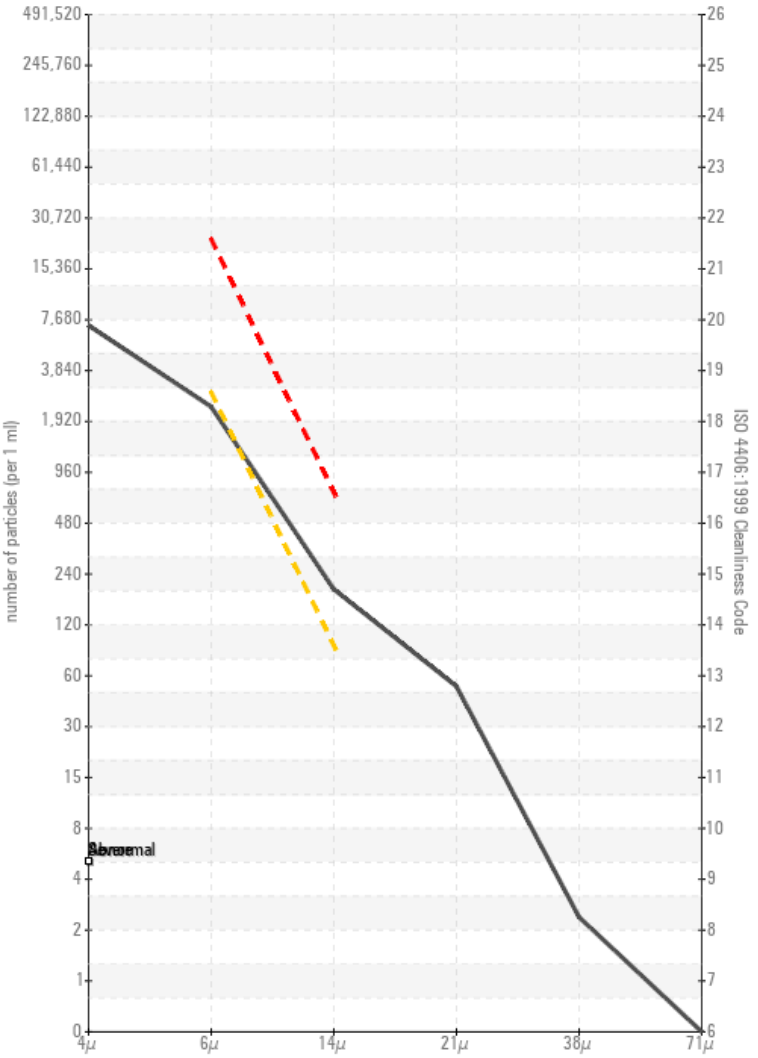
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number