



CONSTRUCTION EQUIPMENT

VOLVO EC250EL 314172 - HYDRAULIC SYSTEM



Sample No: VCP438768
Oil Type: VALVOLINE AW HYDRAULIC 46
Job No:



SAMPLE INFORMATION

Sample Number	VCP438768	VCP437124	VCP416399	---
Sample Date	14 May 2024	23 Jan 2024	02 Oct 2023	---
Machine Hours	3232	0	2232	---
Oil Hours	0	0	0	---
Oil Changed	Not Chngd	Changed	Changed	---
Sample Status	NORMAL	NORMAL	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	42.8	41.7	41.6	---
Acid Number (AN)	mg KOH/g	0.54	0.38	0.56	---



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Particles >4µm		6333	10939	2534	---
Particles >6µm		1826	2922	691	---
Particles >14µm		149	178	48	---
ISO 4406:1999 (c)		20/18/14	21/19/15	19/17/13	---
Silicon	ppm	1	4	3	---
Sodium	ppm	2	2	1	---
Potassium	ppm	1	0	0	---

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	1	---
Copper	ppm	3	9	12	---
Lead	ppm	<1	<1	0	---
Tin	ppm	<1	<1	<1	---
Aluminum	ppm	<1	<1	0	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	2	6	0	---
Nickel	ppm	0	0	0	---
Titanium	ppm	<1	<1	0	---
Silver	ppm	<1	0	0	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	<1	<1	0	---



ADDITIVES

Calcium	ppm	235	782	91	---
Magnesium	ppm	15	67	2	---
Zinc	ppm	423	675	570	---
Phosphorus	ppm	349	585	451	---
Barium	ppm	0	0	0	---
Boron	ppm	0	8	0	---

Depot: CITMILCON
Unique No: 11056036
Signed: Wes Davis
Report Date: 30 May 2024

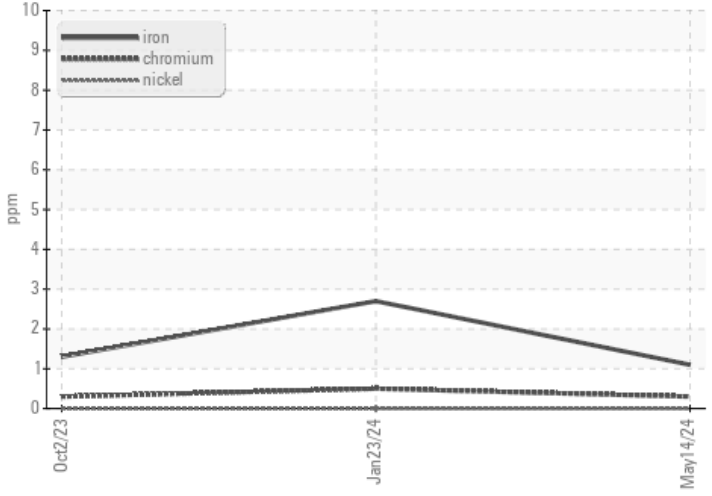


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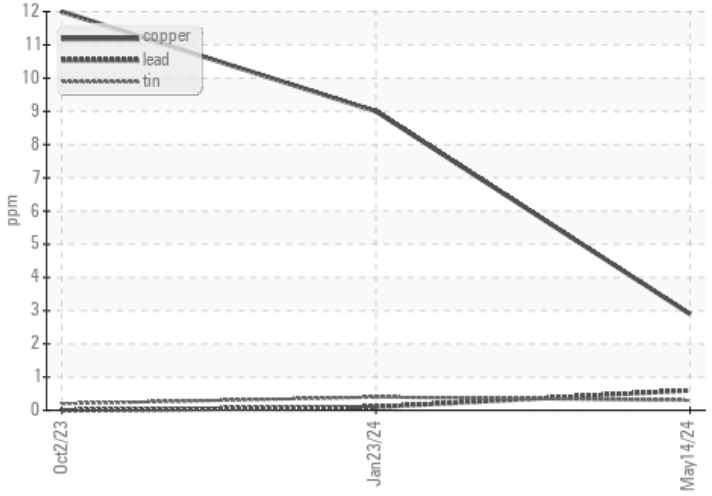


VOLVO GRAPHS

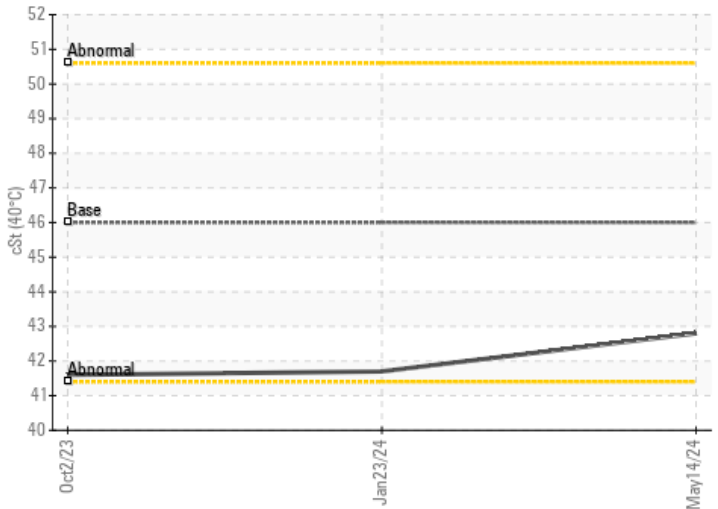
Ferrous Alloys



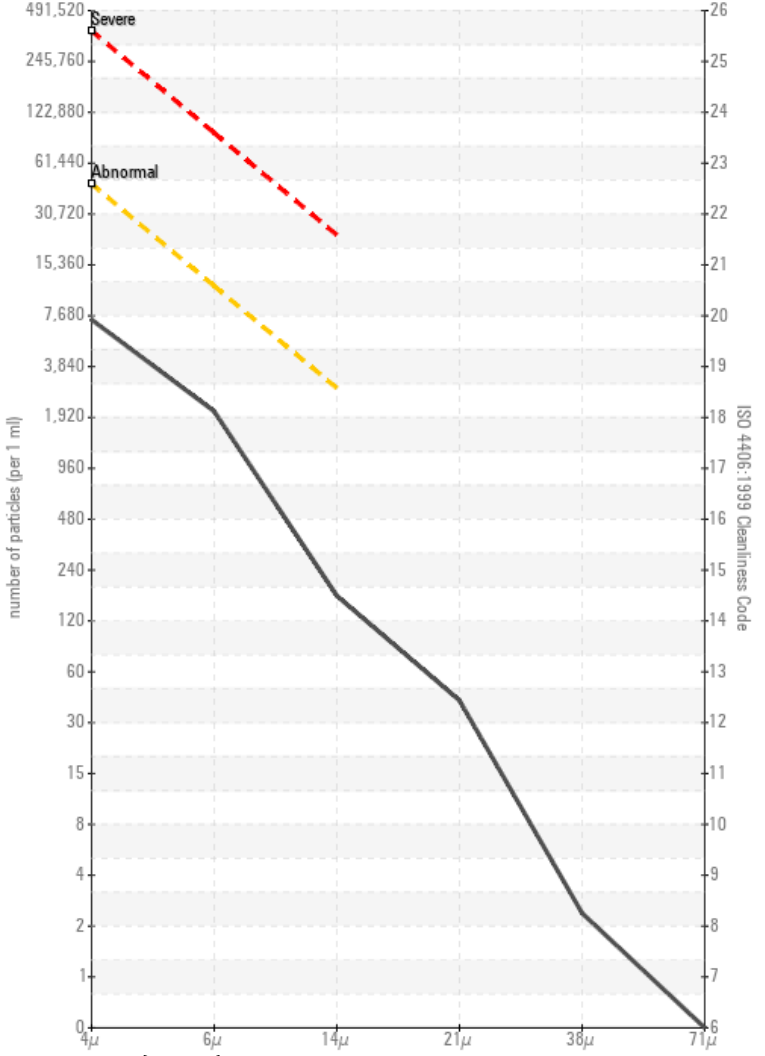
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

