



CONSTRUCTION EQUIPMENT

VOLVO EC300EL 313148 - HYDRAULIC SYSTEM



Sample No: VCP437549
Oil Type: VALVOLINE HD SUPER 10W
Job No:



SAMPLE INFORMATION

Sample Number	VCP437549	VCP281613	---	---
Sample Date	14 May 2024	11 Nov 2020	---	---
Machine Hours	7144	1161	---	---
Oil Hours	0	0	---	---
Oil Changed	Not Chngd	Not Chngd	---	---
Sample Status	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	42.3	86.3	---	---
Acid Number (AN)	mg KOH/g	0.58	1.758	---	---



CONTAMINATION

Water	%	NEG	NEG	---	---
Particles >4µm		28969	10753	---	---
Particles >6µm		2703	3196	---	---
Particles >14µm		77	383	---	---
ISO 4406:1999 (c)		22/19/13	21/19/16	---	---
Silicon	ppm	3	6	---	---
Sodium	ppm	2	<1	---	---
Potassium	ppm	2	<1	---	---

Diagnosis
 The filter change at the time of sampling has been noted. 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. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	3	1	---	---
Copper	ppm	8	0	---	---
Lead	ppm	<1	0	---	---
Tin	ppm	<1	<1	---	---
Aluminum	ppm	<1	<1	---	---
Chromium	ppm	3	<1	---	---
Molybdenum	ppm	8	32	---	---
Nickel	ppm	0	0	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	<1	<1	---	---
Manganese	ppm	<1	<1	---	---
Vanadium	ppm	<1	0	---	---



ADDITIVES

Calcium	ppm	733	1977	---	---
Magnesium	ppm	69	114	---	---
Zinc	ppm	499	944	---	---
Phosphorus	ppm	437	844	---	---
Barium	ppm	0	0	---	---
Boron	ppm	7	35	---	---

Depot: CITMILCON
Unique No: 11056037
Signed: Angela Borella
Report Date: 31 May 2024

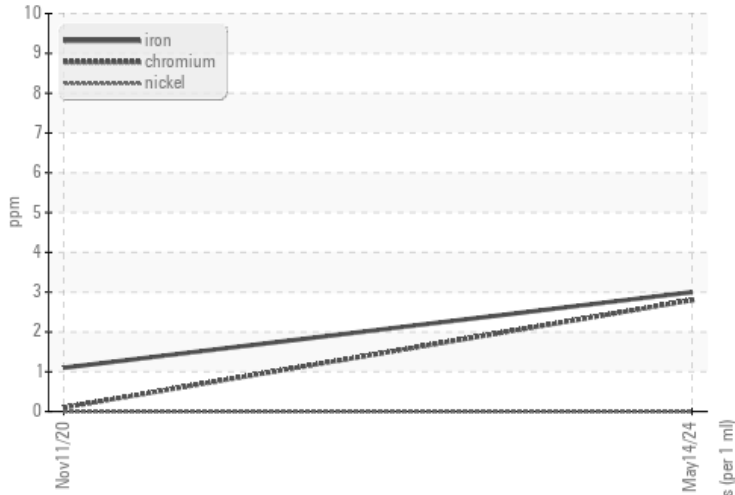


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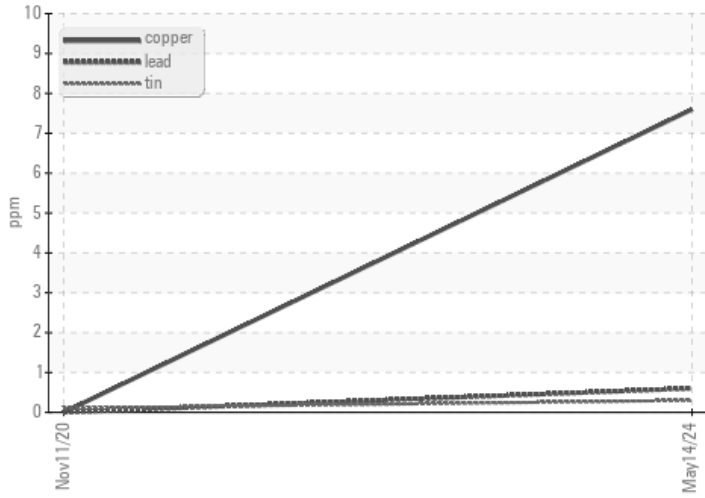


GRAPHS

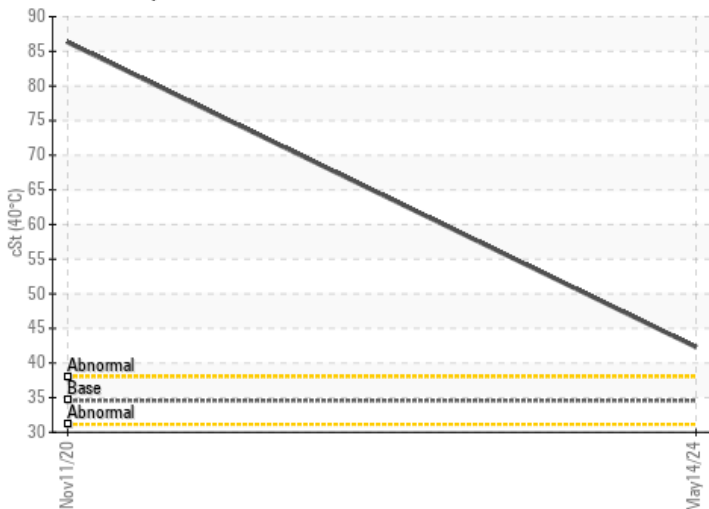
Ferrous Alloys



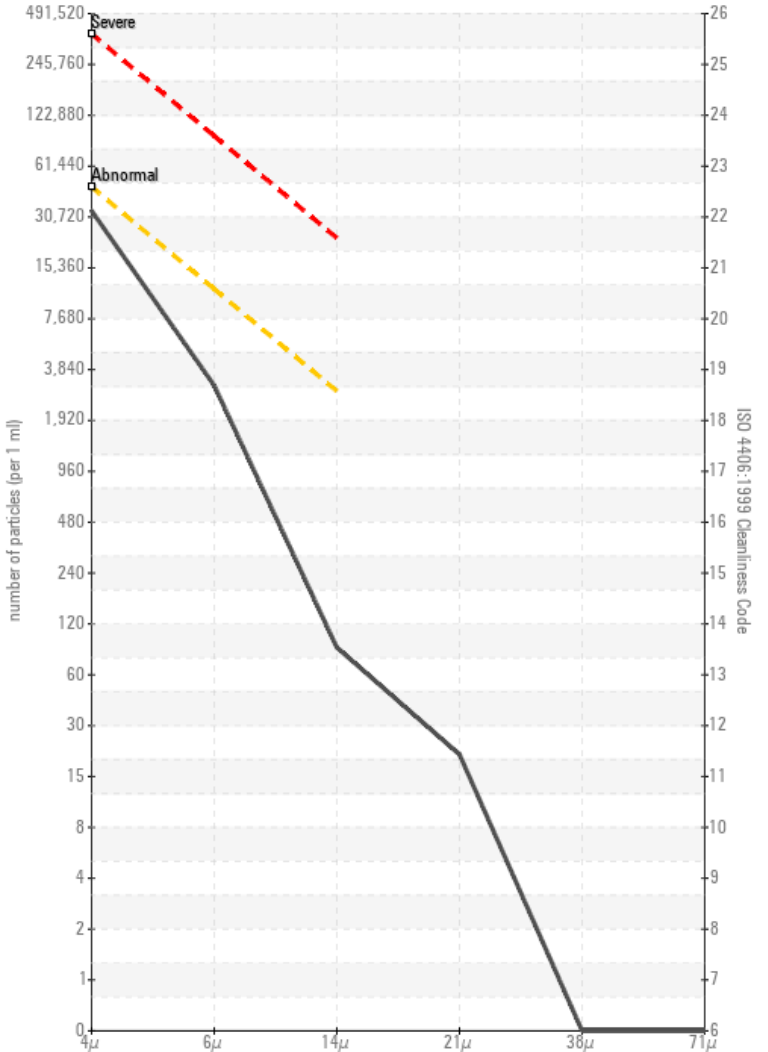
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

