



CONSTRUCTION EQUIPMENT

W02007841 VOLVO EC300 313052 - HYDRAULIC SYSTEM



Sample No: VCP326998
Oil Type: MOBIL HYDRAULIC OIL AW 46
Job No: W02007841



SAMPLE INFORMATION

Sample Number	VCP326998	VCP319465	VCP292199	---
Sample Date	15 Dec 2023	27 Apr 2022	01 Apr 2021	---
Machine Hours	6054	3982	2035	---
Oil Hours	2000	2000	2035	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

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OIL CONDITION

Visc @ 40°C	cSt	41.7	42.2	44.9	---
Acid Number (AN)	mg KOH/g	0.35	0.37	0.398	---



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Particles >4µm		4239	2683	15517	---
Particles >6µm		58	55	914	---
Particles >14µm		5	5	44	---
ISO 4406:1999 (c)		19/13/10	19/13/10	21/17/13	---
Silicon	ppm	3	2	2	---
Sodium	ppm	1	<1	2	---
Potassium	ppm	2	0	0	---

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. 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 suitable for further service.



WEAR METALS

Iron	ppm	7	9	7	---
Copper	ppm	6	22	27	---
Lead	ppm	0	0	<1	---
Tin	ppm	0	<1	<1	---
Aluminum	ppm	1	1	2	---
Chromium	ppm	2	2	2	---
Molybdenum	ppm	2	2	1	---
Nickel	ppm	0	0	0	---
Titanium	ppm	<1	0	<1	---
Silver	ppm	0	<1	<1	---
Manganese	ppm	0	<1	<1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	75	74	80	---
Magnesium	ppm	14	5	6	---
Zinc	ppm	269	387	389	---
Phosphorus	ppm	224	330	307	---
Barium	ppm	0	0	0	---
Boron	ppm	0	2	2	---

Depot: VOLVO0002
Unique No: 10803729
Signed: Jonathan Hester
Report Date: 27 Dec 2023

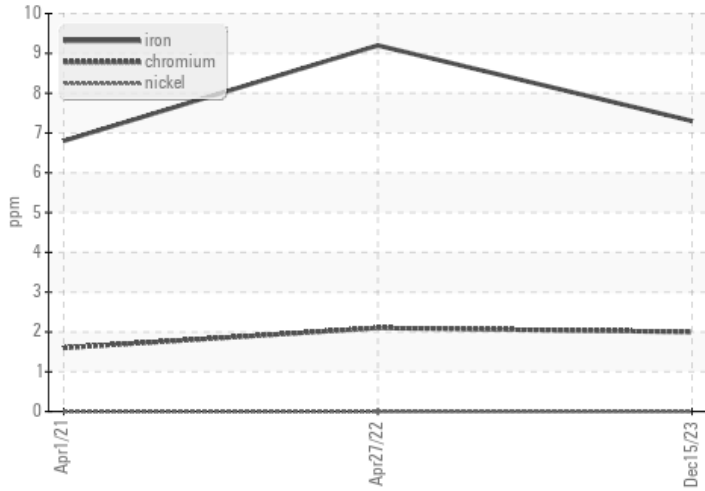


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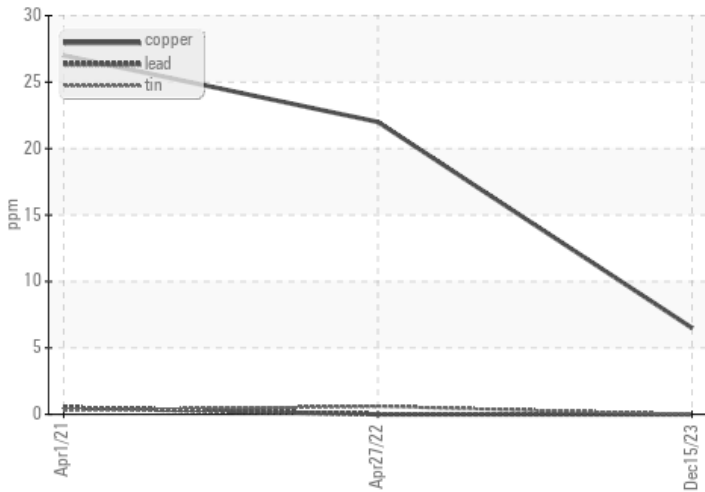


VOLVO GRAPHS

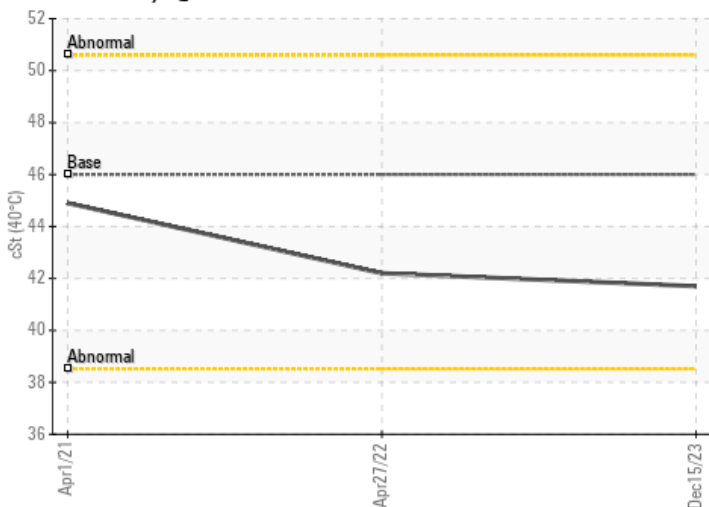
Ferrous Alloys



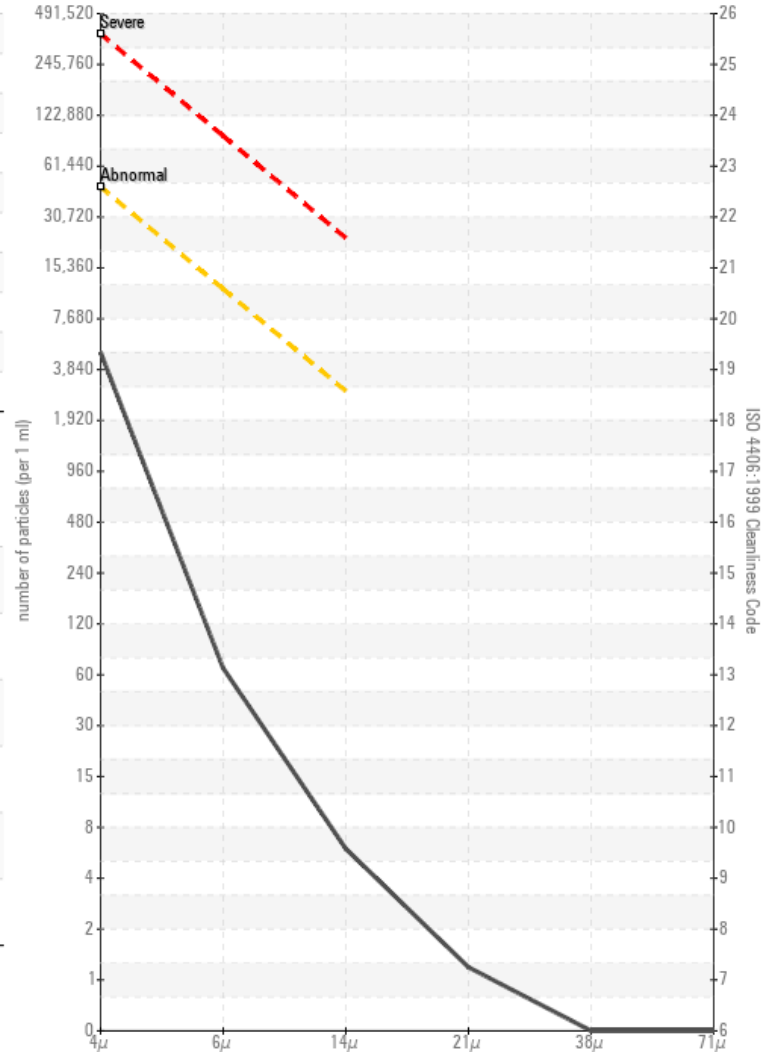
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

