



CONSTRUCTION EQUIPMENT

405980 CARR BROS VOLVO A40F 11213 - HYDRAULIC SYSTEM



Sample No: VCP383083
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: 405980 CARR BROS



SAMPLE INFORMATION

Sample Number	VCP383083	VCE159409	VCE114696	---
Sample Date	01 Dec 2023	27 Jun 2012	09 May 2012	---
Machine Hours	15931	1568	1047	---
Oil Hours	0	0	0	---
Oil Changed	Not Chngd	N/A	N/A	---
Sample Status	NORMAL	NORMAL	NORMAL	---

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OIL CONDITION

Visc @ 40°C	cSt	45.9	42.13	41.89	---
Acid Number (AN)	mg KOH/g	0.39	0.438	0.630	---



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Particles >4µm		7348	383	467	---
Particles >6µm		966	209	254	---
Particles >14µm		29	35	43	---
ISO 4406:1999 (c)		20/17/12	16/15/12	16/15/13	---
Silicon	ppm	2	13	9	---
Sodium	ppm	1	0	<1	---
Potassium	ppm	0	0	10	---

Diagnosis

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) AW HYDRAULIC OIL ISO 46. Please confirm.
 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	3	3	2	---
Copper	ppm	<1	3	3	---
Lead	ppm	0	<1	5	---
Tin	ppm	0	0	0	---
Aluminum	ppm	0	0	<1	---
Chromium	ppm	0	0	<1	---
Molybdenum	ppm	0	0	0	---
Nickel	ppm	0	0	<1	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	0	0	0	---
Vanadium	ppm	<1	0	0	---



ADDITIVES

Calcium	ppm	251	46	52	---
Magnesium	ppm	0	0	0	---
Zinc	ppm	465	598	534	---
Phosphorus	ppm	366	540	450	---
Barium	ppm	0	0	0	---
Boron	ppm	0	0	<1	---

Depot: VOLVO2990
Unique No: 10802685
Signed: Wes Davis
Report Date: 22 Dec 2023

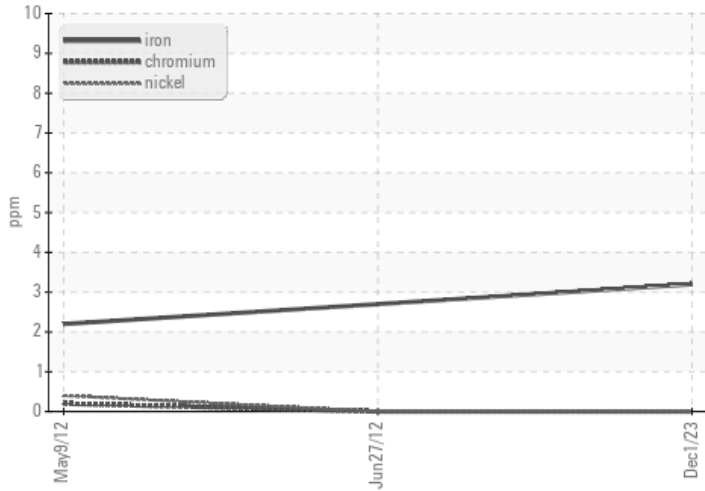


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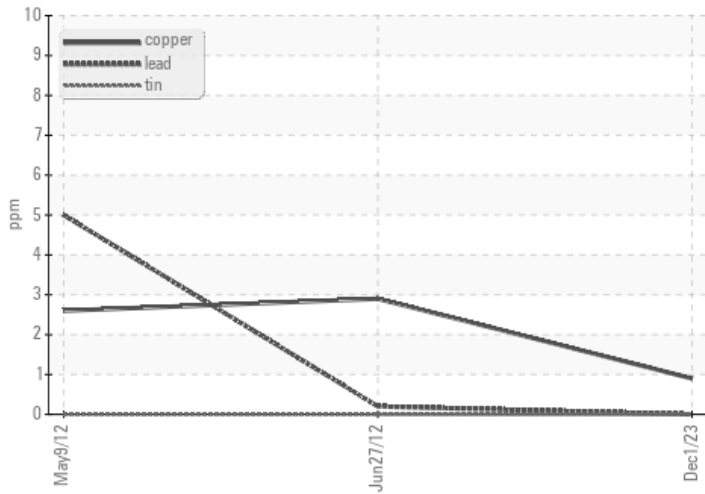


GRAPHS

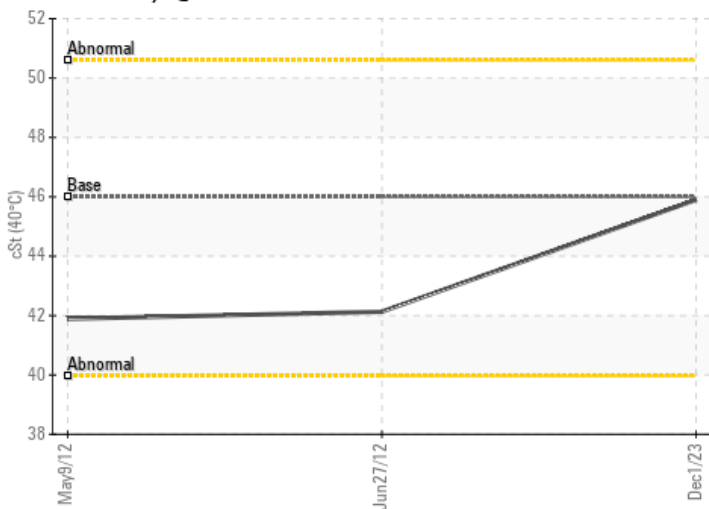
Ferrous Alloys



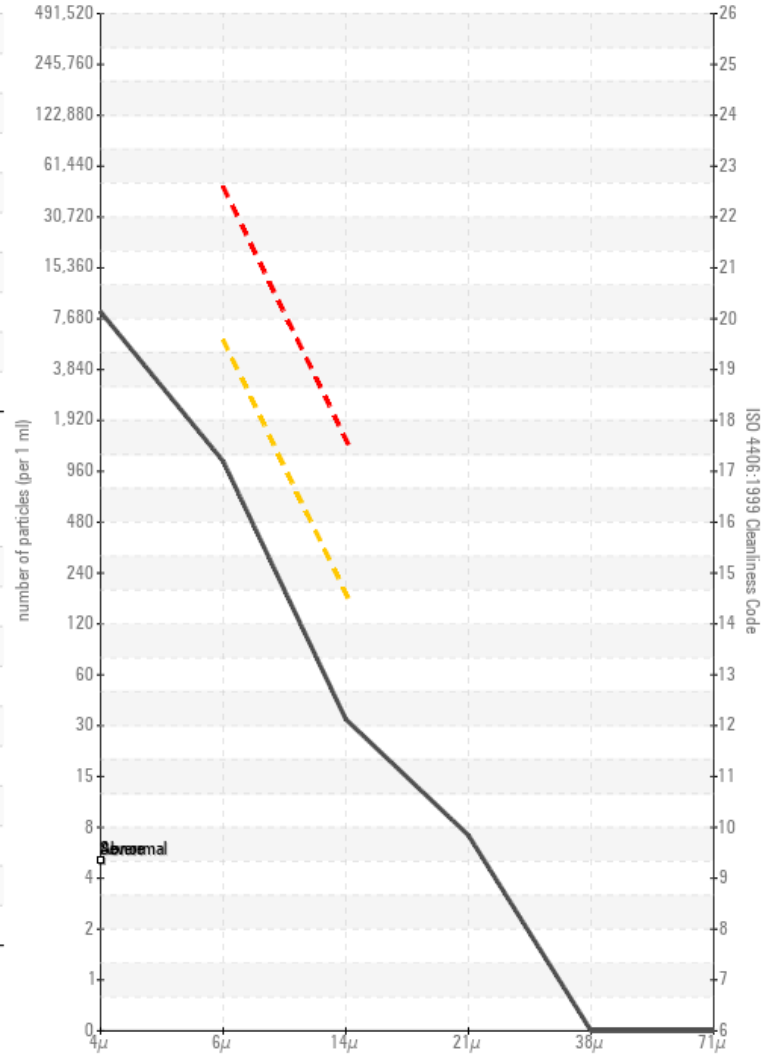
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

