



CONSTRUCTION EQUIPMENT

634367 VOLVO A40G 352842 - HYDRAULIC SYSTEM



Sample No: VCP440784
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 634367



SAMPLE INFORMATION

Sample Number	VCP440784	VCP410230	VCP386345	VCP359339
Sample Date	27 Nov 2023	11 May 2023	13 Oct 2022	19 Apr 2022
Machine Hours	4010	3070	1984	1024
Oil Hours	4010	0	1984	1024
Oil Changed	Changed	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

RIPA AND ASSOCIATES

10149 FISHER AVENUE
 TAMPA, FL
 US 33619
 Contact: PM Services
 PMServices@ripaconstruction.com
 T:
 F:



OIL CONDITION

Visc @ 40°C	cSt	44.6	44.5	44.8	44.9
Acid Number (AN)	mg KOH/g	0.41	0.37	0.32	0.48



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		844	2306	2863	4636
Particles >6µm		98	836	775	744
Particles >14µm		7	64	105	41
ISO 4406:1999 (c)		17/14/10	18/17/13	19/17/14	19/17/13
Silicon	ppm	5	7	4	4
Sodium	ppm	2	0	0	0
Potassium	ppm	<1	1	0	1

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	8	9	5	3
Copper	ppm	3	3	2	2
Lead	ppm	3	4	3	2
Tin	ppm	0	<1	0	<1
Aluminum	ppm	1	0	<1	<1
Chromium	ppm	0	0	0	0
Molybdenum	ppm	0	0	0	0
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	<1	0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	75	77	61	53
Magnesium	ppm	2	2	<1	<1
Zinc	ppm	438	603	442	407
Phosphorus	ppm	356	444	347	301
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	0

Depot: RIPTAM
Unique No: 10833971
Signed: Wes Davis
Report Date: 18 Jan 2024

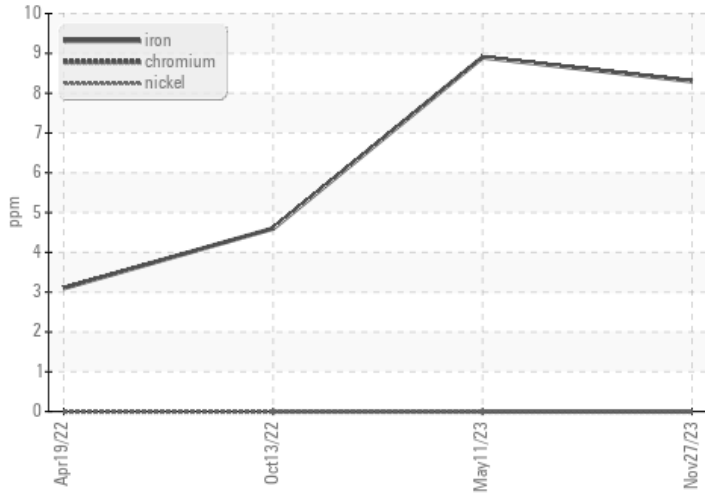


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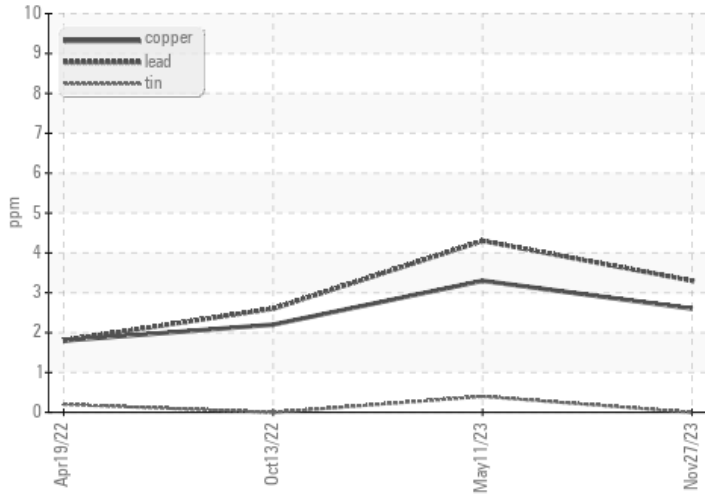


GRAPHS

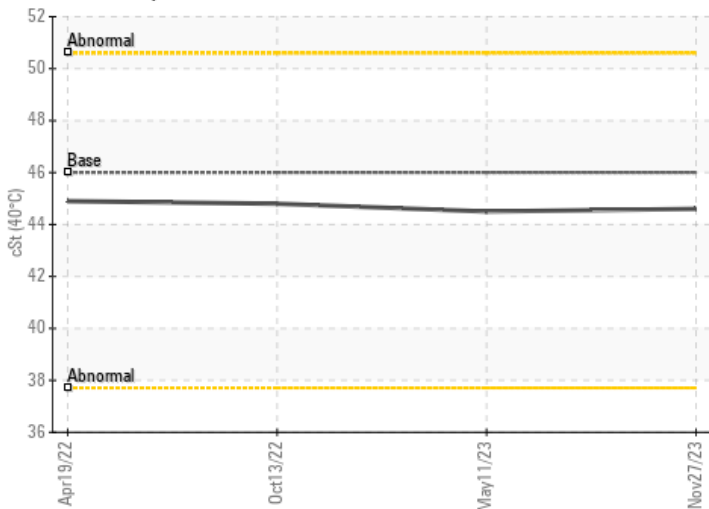
Ferrous Alloys



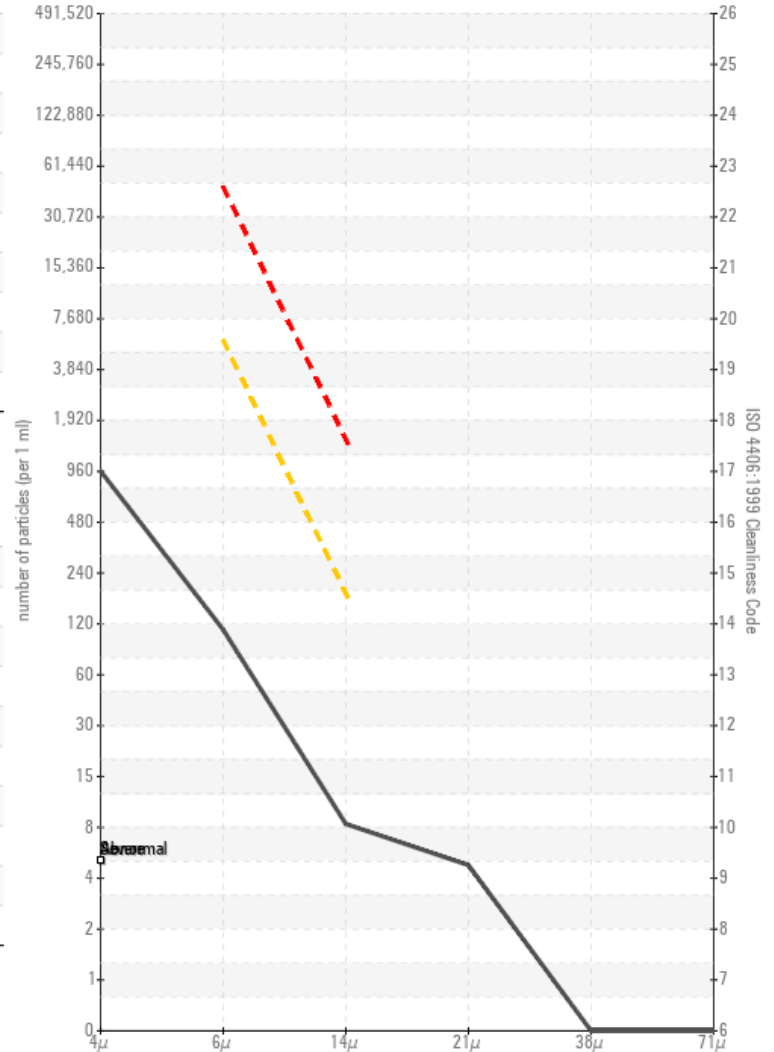
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

