



CONSTRUCTION EQUIPMENT

622085 VOLVO A40G 352851 - HYDRAULIC SYSTEM



Sample No: VCP424417
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 622085



SAMPLE INFORMATION

Sample Number	VCP424417	VCP420260	VCP385558	VCP356627
Sample Date	06 Nov 2023	12 Apr 2023	07 Oct 2022	17 Mar 2022
Machine Hours	4099	3090	2036	1095
Oil Hours	4099	3090	1500	1095
Oil Changed	Changed	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	ATTENTION	ATTENTION	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	44.2	44.4	44.8	44.7
Acid Number (AN)	mg KOH/g	0.31	0.42	0.38	0.39



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		402	5692	14010	9973
Particles >6µm		89	2007	2856	1599
Particles >14µm		8	▲ 166	▲ 246	81
ISO 4406:1999 (c)		16/14/10	20/18/15	21/19/15	20/18/14
Silicon	ppm	7	6	6	6
Sodium	ppm	0	<1	1	<1
Potassium	ppm	2	0	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	11	9	7	5
Copper	ppm	4	2	2	2
Lead	ppm	4	2	3	1
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	2	0	<1	<1
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	<1	0	<1	0
Nickel	ppm	<1	0	0	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	0	<1	0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	68	67	58	60
Magnesium	ppm	2	0	0	0
Zinc	ppm	436	442	440	431
Phosphorus	ppm	283	331	339	350
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	1

Depot: RIPTAM
Unique No: 10765004
Signed: Wes Davis
Report Date: 30 Nov 2023

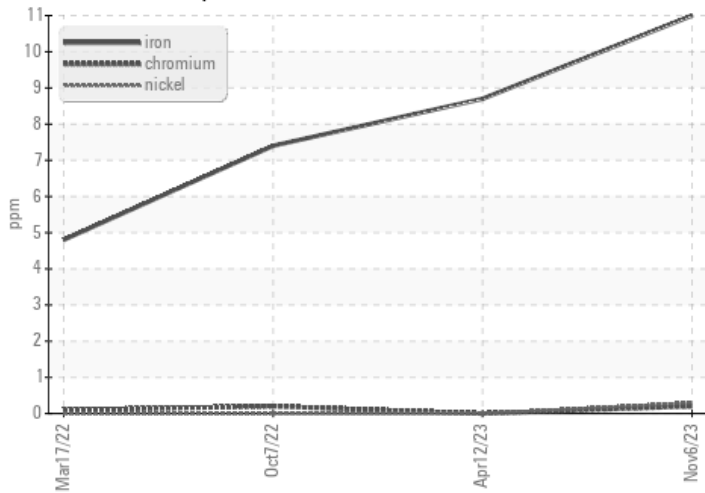


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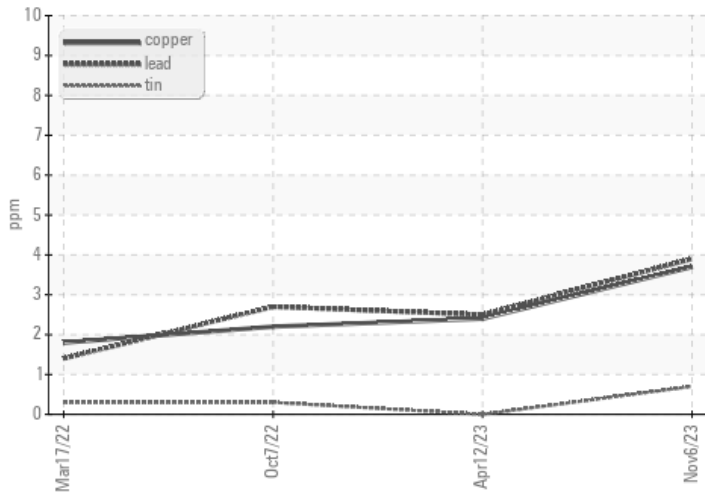


GRAPHS

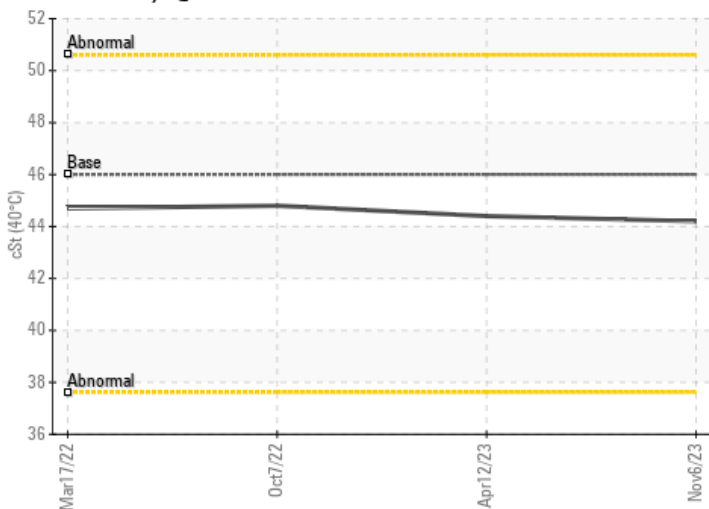
Ferrous Alloys



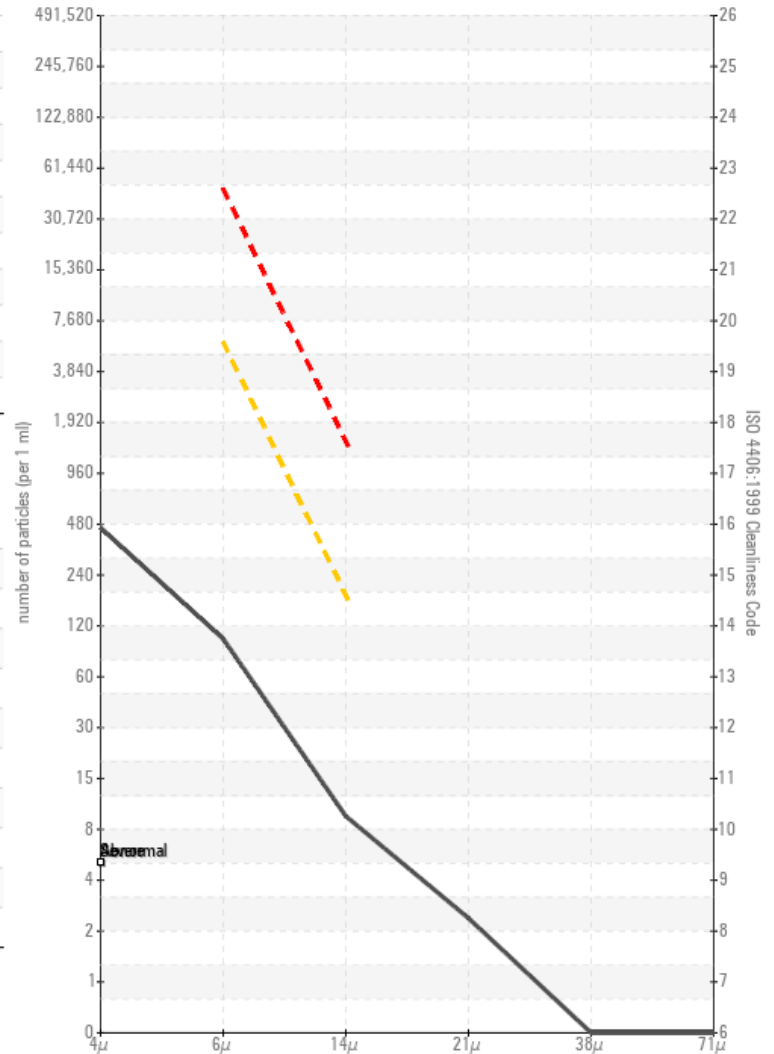
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

