



CONSTRUCTION EQUIPMENT

715594 VOLVO A40G 352851 - HYDRAULIC SYSTEM



Sample No: VCP439779
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 715594



SAMPLE INFORMATION

Sample Number	VCP439779	VCP424417	VCP420260	VCP385558
Sample Date	31 May 2024	06 Nov 2023	12 Apr 2023	07 Oct 2022
Machine Hours	5237	4099	3090	2036
Oil Hours	1037	4099	3090	1500
Oil Changed	Not Chngd	Changed	Not Chngd	Not Chngd
Sample Status	NORMAL	NORMAL	ATTENTION	ATTENTION

RIPA AND ASSOCIATES

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



OIL CONDITION

Visc @ 40°C	cSt	44.3	44.2	44.4	44.8
Acid Number (AN)	mg KOH/g	0.38	0.31	0.42	0.38



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		7905	402	5692	14010
Particles >6µm		2286	89	2007	2856
Particles >14µm		155	8	166	246
ISO 4406:1999 (c)		20/18/14	16/14/10	20/18/15	21/19/15
Silicon	ppm	5	7	6	6
Sodium	ppm	2	0	<1	1
Potassium	ppm	0	2	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	8	11	9	7
Copper	ppm	2	4	2	2
Lead	ppm	1	4	2	3
Tin	ppm	0	<1	0	<1
Aluminum	ppm	<1	2	0	<1
Chromium	ppm	0	<1	0	<1
Molybdenum	ppm	0	<1	0	<1
Nickel	ppm	0	<1	0	0
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	0	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	142	68	67	58
Magnesium	ppm	15	2	0	0
Zinc	ppm	458	436	442	440
Phosphorus	ppm	381	283	331	339
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	0

Depot: RIPTAM
Unique No: 11126529
Signed: Wes Davis
Report Date: 17 Jul 2024

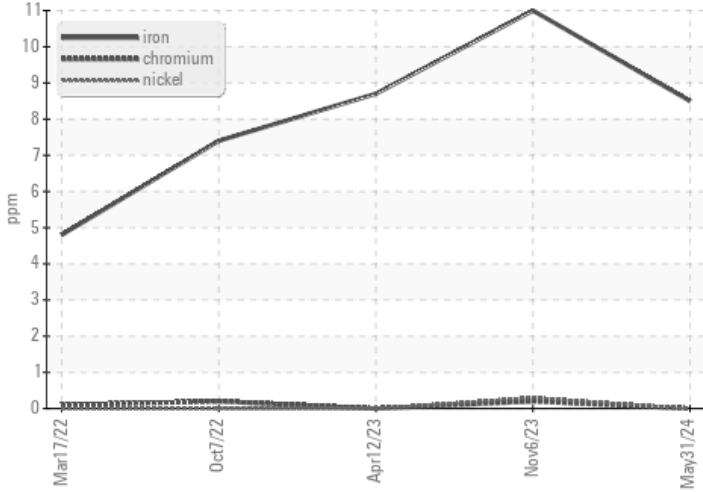


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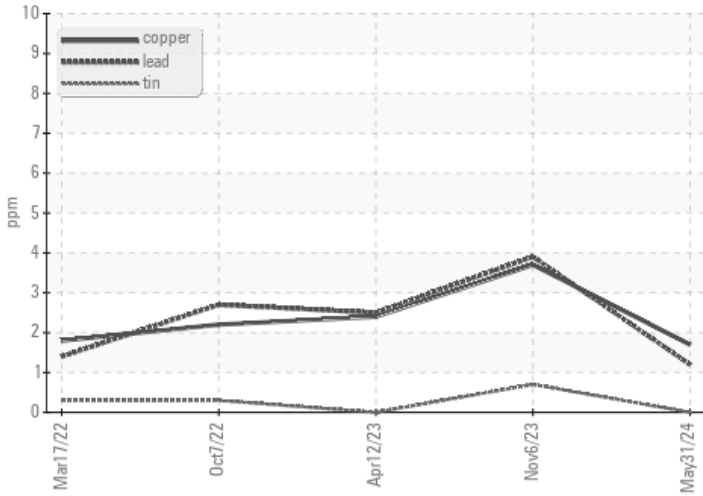


GRAPHS

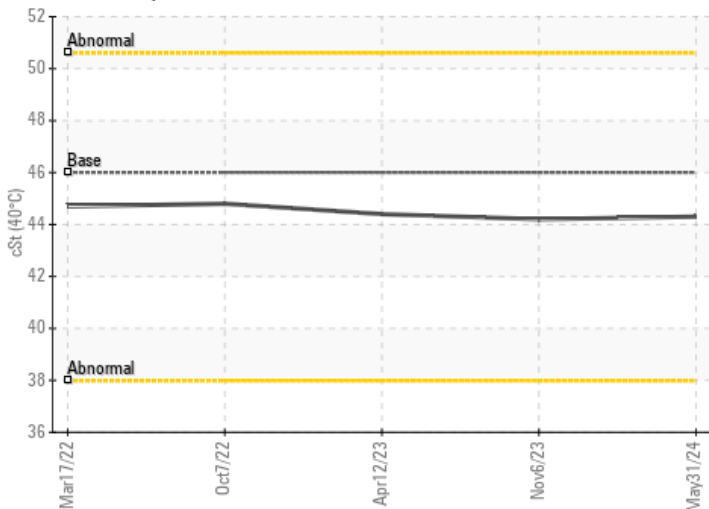
Ferrous Alloys



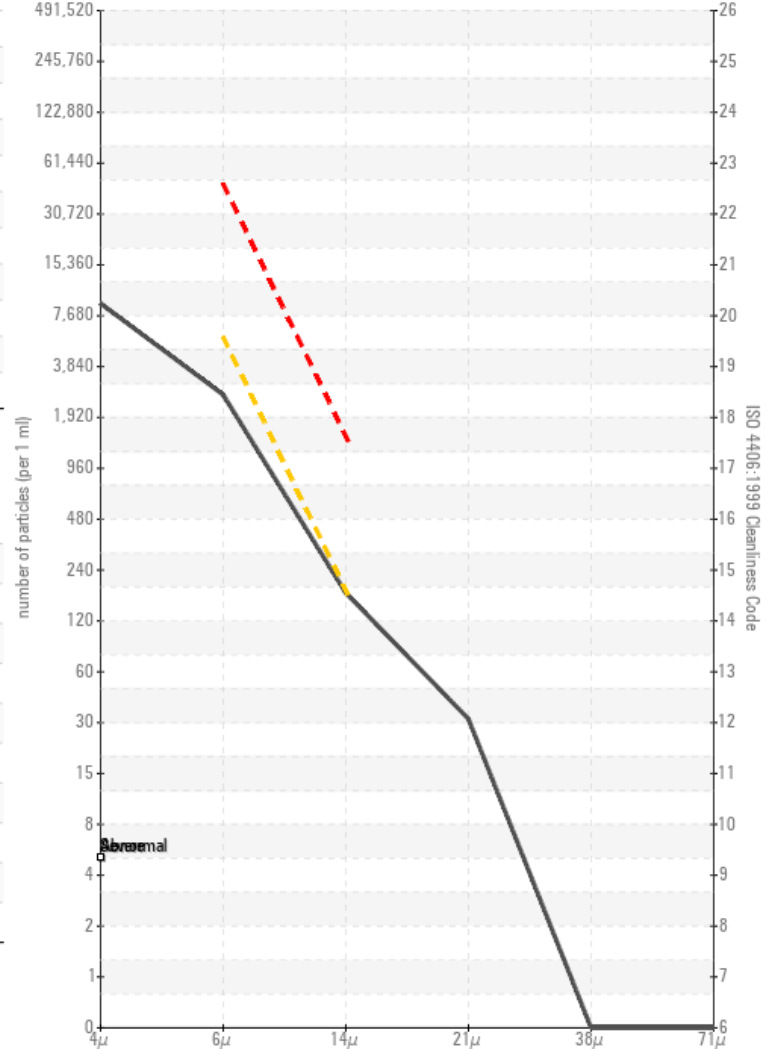
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

