



CONSTRUCTION EQUIPMENT

687753 VOLVO A40G 3525 13 - HYDRAULIC SYSTEM



Sample No: VCP444025
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 687753



SAMPLE INFORMATION

Sample Number	VCP444025	VCP440632	VCP393531	VCP390649
Sample Date	14 Mar 2024	17 Nov 2023	31 Jul 2023	26 Sep 2022
Machine Hours	6161	5635	5166	3603
Oil Hours	2000	0	0	500
Oil Changed	Not Changd	N/A	Changed	Not Changd
Sample Status	NORMAL	SEVERE	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	43.3	43.7	43.7	43.7
Acid Number (AN)	mg KOH/g	0.30	0.25	0.37	0.38

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		3249	32755	6443	5883
Particles >6µm		883	▲ 12437	1971	1790
Particles >14µm		69	▲ 1646	● 166	● 190
ISO 4406:1999 (c)		19/17/13	22/21/18	20/18/15	20/18/15
Silicon	ppm	2	3	5	6
Sodium	ppm	<1	0	2	2
Potassium	ppm	0	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	4	5	9	9
Copper	ppm	0	<1	2	4
Lead	ppm	0	1	2	3
Tin	ppm	0	0	0	0
Aluminum	ppm	0	<1	2	2
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	0	<1	0	<1
Nickel	ppm	0	<1	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	<1	0

ADDITIVES

Calcium	ppm	67	62	60	91
Magnesium	ppm	2	2	0	2
Zinc	ppm	379	398	430	421
Phosphorus	ppm	310	314	342	323
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	0

Depot: RIPTAM
Unique No: 10975881
Signed: Wes Davis
Report Date: 12 Apr 2024

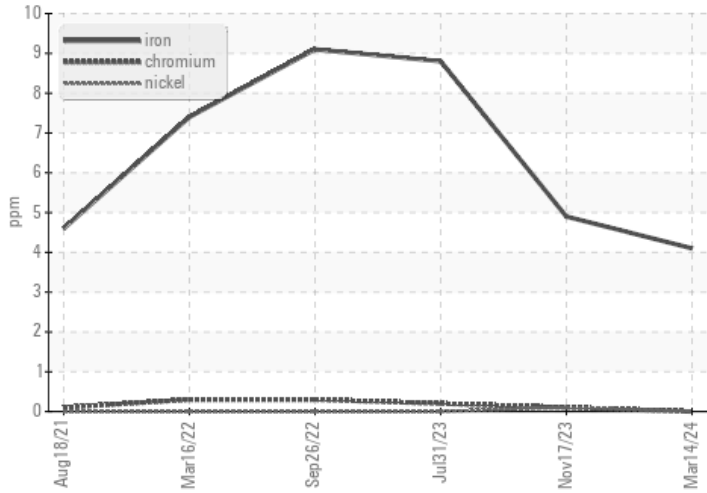


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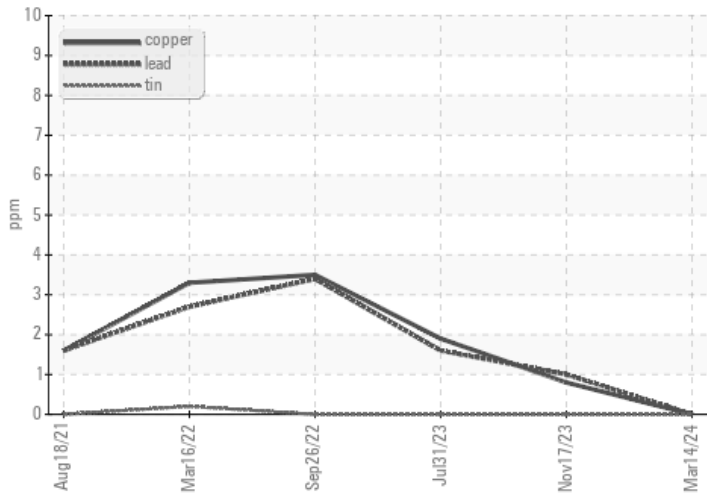


GRAPHS

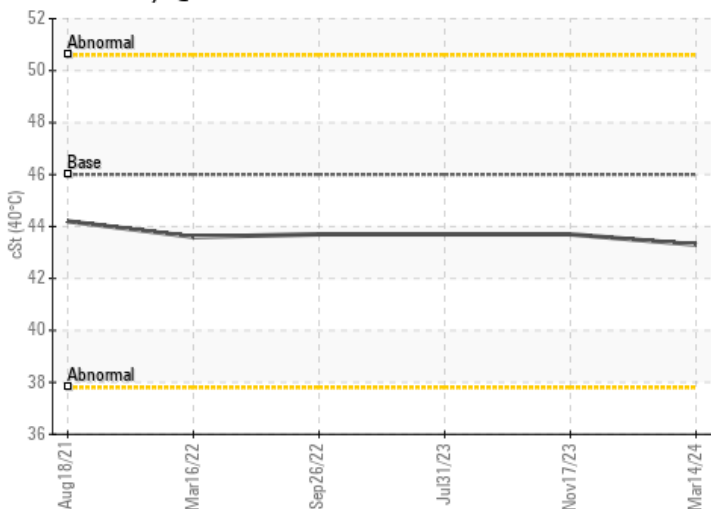
Ferrous Alloys



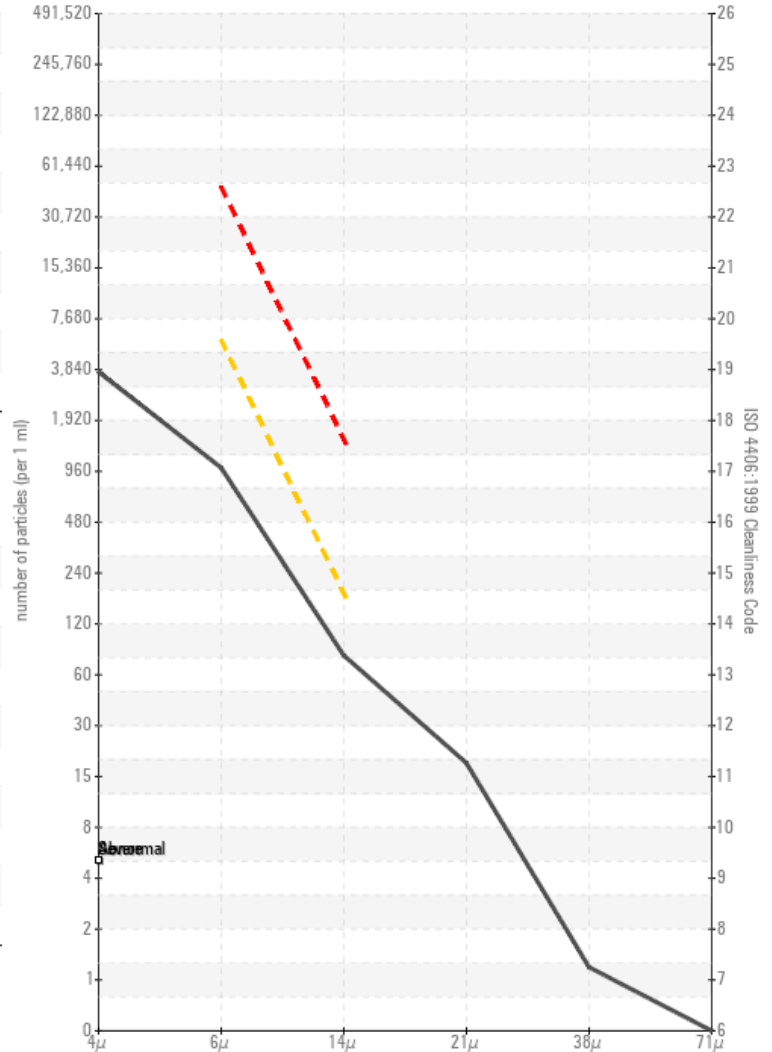
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

