



CONSTRUCTION EQUIPMENT

VOLVO A30G 752302 - HYDRAULIC SYSTEM



Sample No: VCP418273
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No:



SAMPLE INFORMATION

Sample Number	VCP418273	VCP420266	VCP364307	VCP350264
Sample Date	25 Jul 2023	15 Apr 2023	30 Aug 2022	17 Feb 2022
Machine Hours	7446	3244	2193	983
Oil Hours	0	3244	2193	1500
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Not Chngd
Sample Status	ABNORMAL	NORMAL	NORMAL	ABNORMAL

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

OIL CONDITION

Visc @ 40°C	cSt	▲ 28.7	■ 46.6	■ 45.1	■ 42.5
Acid Number (AN)	mg KOH/g	■ 0.90	■ 0.59	■ 0.40	■ 0.55

CONTAMINATION

Particles >4µm		33746	5226	8310	---
Particles >6µm		■ 1904	■ 1209	■ 1290	---
Particles >14µm		■ 100	■ 69	■ 56	---
ISO 4406:1999 (c)		22/18/14	20/17/13	20/17/13	---
Silicon	ppm	■ 6	■ 3	■ 2	■ 3
Sodium	ppm	■ 5	■ 2	■ 2	■ 0
Potassium	ppm	■ 1	■ <1	■ 0	■ 1

Diagnosis
 Confirm the source of the lubricant being utilized for top-up/fill. It is also possible that this sample was taken from a different machine, or possibly mis-identified. Resample at the next service interval to monitor. All component wear rates are normal. The amount and size of particulates present in the system are acceptable. The oil viscosity is lower than normal. Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type.

WEAR METALS

Iron	ppm	■ 26	■ 8	■ 5	■ 3
Copper	ppm	■ 12	■ 5	■ 5	■ 30
Lead	ppm	■ 0	■ 3	■ 3	■ <1
Tin	ppm	■ 3	■ 0	■ <1	■ <1
Aluminum	ppm	■ 16	■ 0	■ <1	■ 0
Chromium	ppm	■ 0	■ 0	■ 0	■ 0
Molybdenum	ppm	■ 0	■ 5	■ 0	■ <1
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	<1	0	0	0

ADDITIVES

Calcium	ppm	■ 72	■ 150	■ 51	■ 74
Magnesium	ppm	■ 1	79	■ <1	■ 2
Zinc	ppm	▲ 0	■ 537	■ 424	■ 480
Phosphorus	ppm	■ 193	■ 415	■ 320	■ 366
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	▲ 94	■ 0	■ 0	■ <1

Depot: RIPTAM
Unique No: 10609478
Signed: Angela Borella
Report Date: 22 Aug 2023

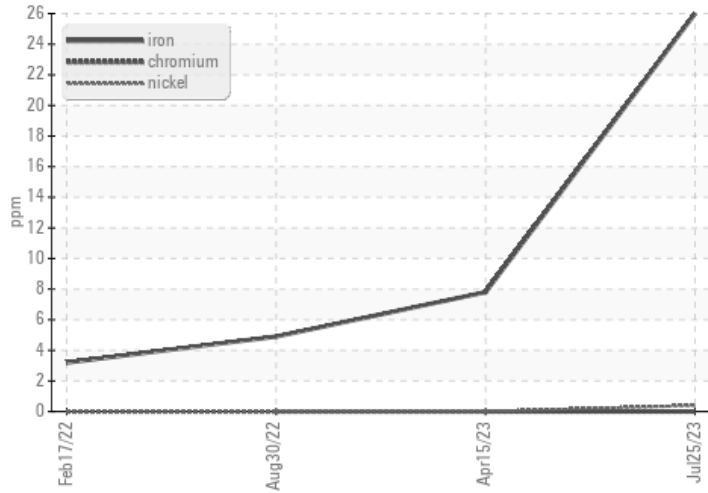


CONSTRUCTION EQUIPMENT

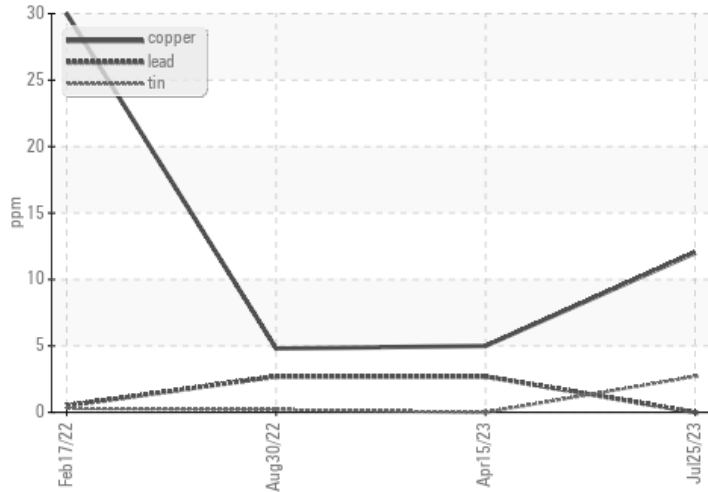


GRAPHS

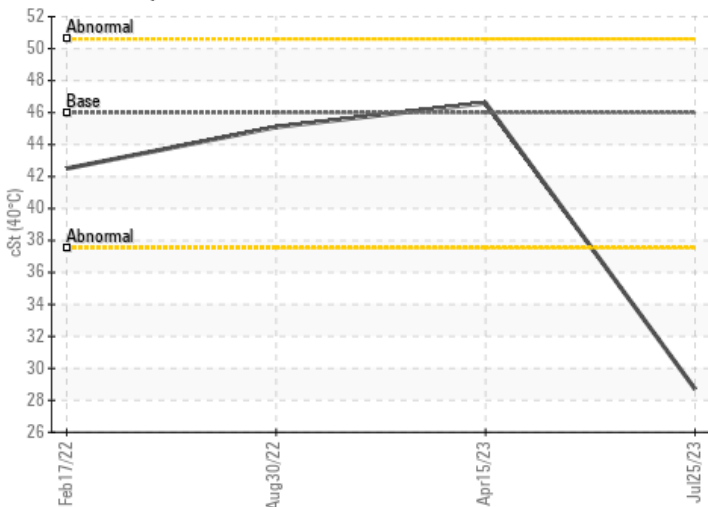
Ferrous Alloys



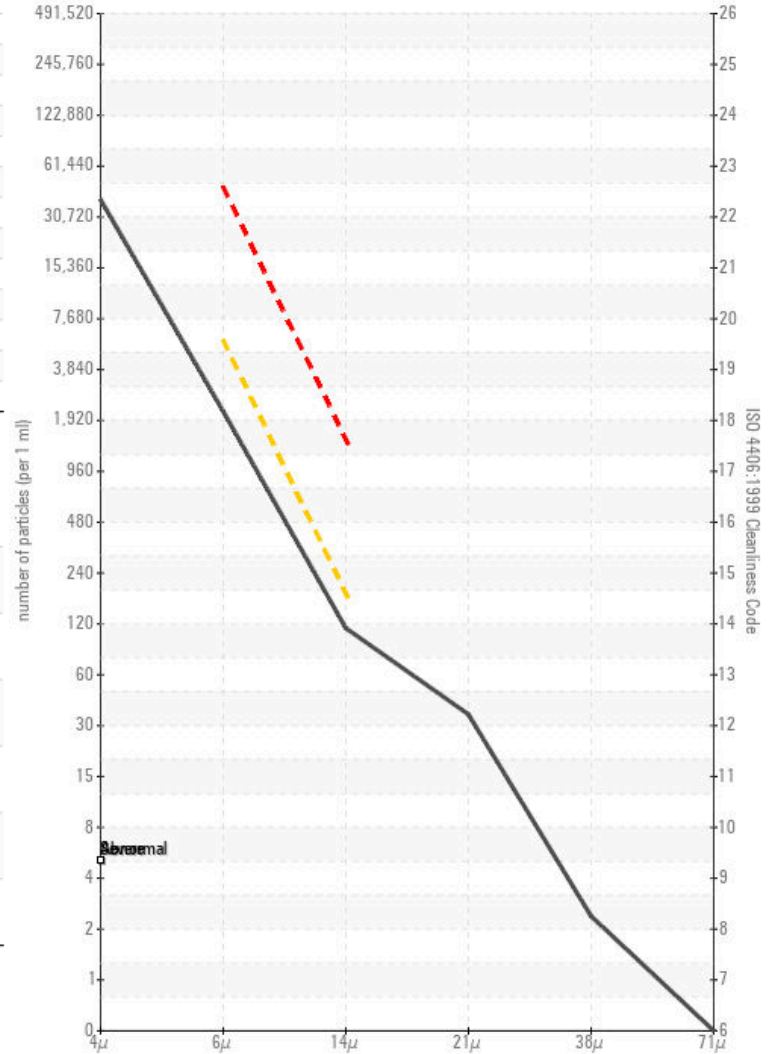
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

