



CONSTRUCTION EQUIPMENT

VOLVO A30G 752143 - HYDRAULIC SYSTEM



Sample No: VCP416413
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No:



SAMPLE INFORMATION

Sample Number	VCP416413	VCP392709	VCP354434	VCP332738
Sample Date	04 Oct 2023	04 Mar 2023	09 Aug 2022	17 Feb 2022
Machine Hours	5463	4274	3258	2192
Oil Hours	0	4274	1500	2192
Oil Changed	Not Chngd	Changed	Not Chngd	Not Chngd
Sample Status	NORMAL	NORMAL	ABNORMAL	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	44.2	44.5	44.8	45.2
Acid Number (AN)	mg KOH/g	0.742	0.36	0.40	0.40

CONTAMINATION

Particles >4µm		5092	1468	---	22317
Particles >6µm		810	363	---	4206
Particles >14µm		35	13	---	258
ISO 4406:1999 (c)		20/17/12	18/16/11	---	22/19/15
Silicon	ppm	1	4	4	3
Sodium	ppm	<1	4	3	3
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	2	12	12	10
Copper	ppm	2	9	11	9
Lead	ppm	<1	4	5	5
Tin	ppm	0	<1	1	<1
Aluminum	ppm	0	1	2	<1
Chromium	ppm	1	<1	<1	<1
Molybdenum	ppm	<1	<1	<1	<1
Nickel	ppm	0	0	<1	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	<1	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	68	74	85	71
Magnesium	ppm	1	4	0	2
Zinc	ppm	438	454	457	435
Phosphorus	ppm	328	350	356	400
Barium	ppm	0	0	0	0
Boron	ppm	0	0	8	2

Depot: RIPTAM
Unique No: 10700844
Signed: Wes Davis
Report Date: 20 Oct 2023

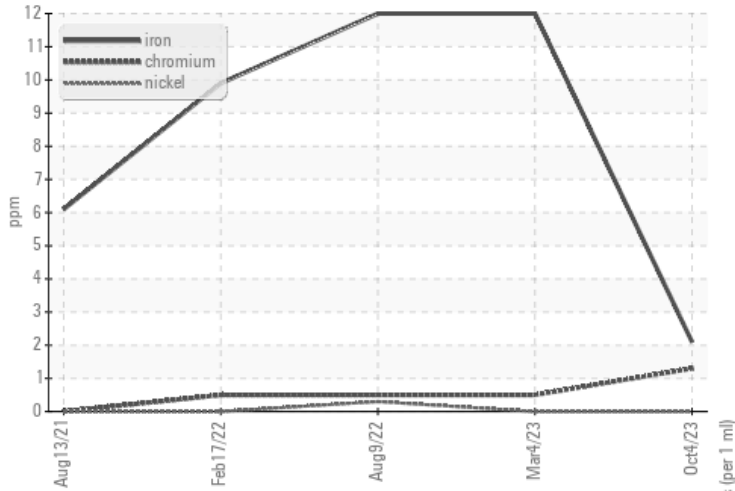


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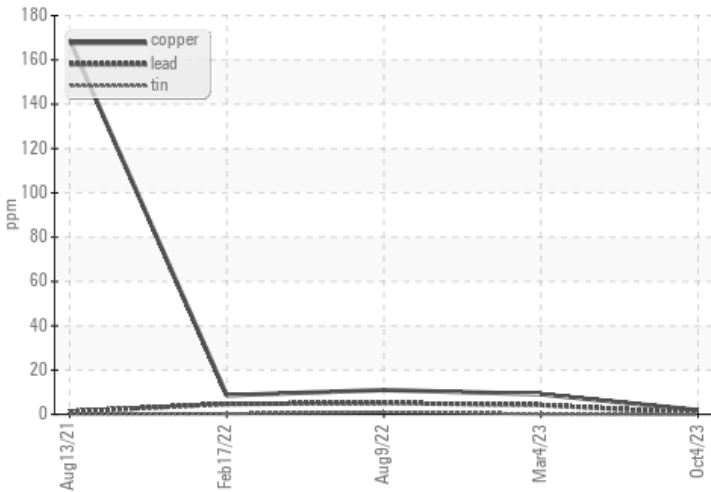


GRAPHS

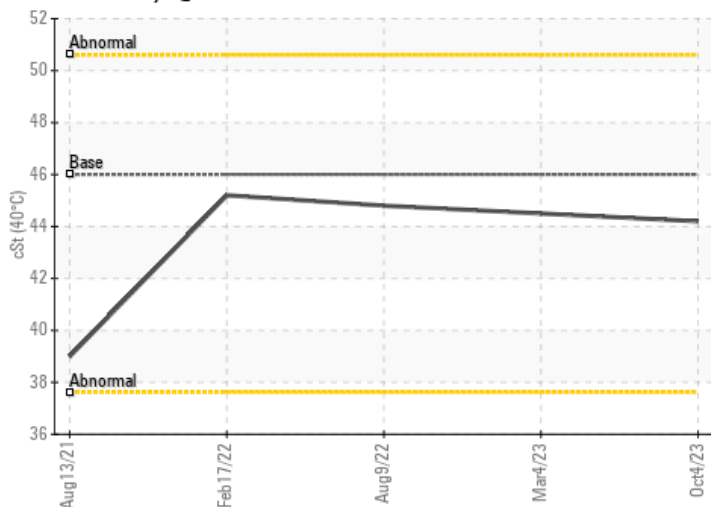
Ferrous Alloys



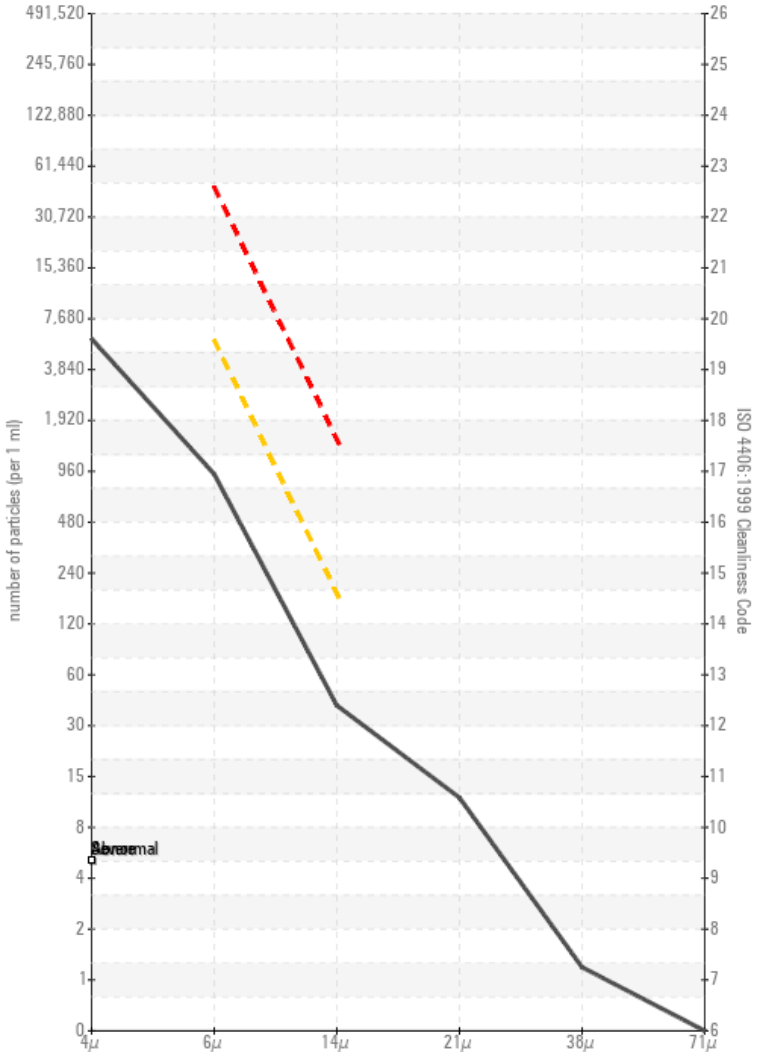
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

