



CONSTRUCTION EQUIPMENT

593679 VOLVO A30G 742129 - HYDRAULIC SYSTEM



Sample No: VCP416191
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 593679



SAMPLE INFORMATION

Sample Number	VCP416191	VCP398060	VCP357269	VCP279216
Sample Date	12 Aug 2023	21 Dec 2022	11 Apr 2022	22 Oct 2020
Machine Hours	9111	8052	7176	5286
Oil Hours	1000	4000	3000	1000
Oil Changed	Not Changd	Changed	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	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	49.7	47.9	47.1	46.4
Acid Number (AN)	mg KOH/g	0.38	0.41	0.42	0.382



CONTAMINATION

Particles >4µm		3736	448	7329	8491
Particles >6µm		1011	95	2016	1831
Particles >14µm		85	8	154	117
ISO 4406:1999 (c)		19/17/14	16/14/10	20/18/14	20/18/14
Silicon	ppm	1	2	5	5
Sodium	ppm	2	0	4	3
Potassium	ppm	0	1	<1	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	3	6	11	9
Copper	ppm	2	4	9	10
Lead	ppm	<1	1	2	3
Tin	ppm	0	0	<1	0
Aluminum	ppm	1	<1	2	1
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	2	1	2	1
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	<1	<1
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	99	69	112	95
Magnesium	ppm	7	9	13	11
Zinc	ppm	527	477	418	424
Phosphorus	ppm	422	369	357	356
Barium	ppm	0	1	0	0
Boron	ppm	1	0	6	8

Depot: RIPTAM
Unique No: 10636250
Signed: Wes Davis
Report Date: 11 Sep 2023

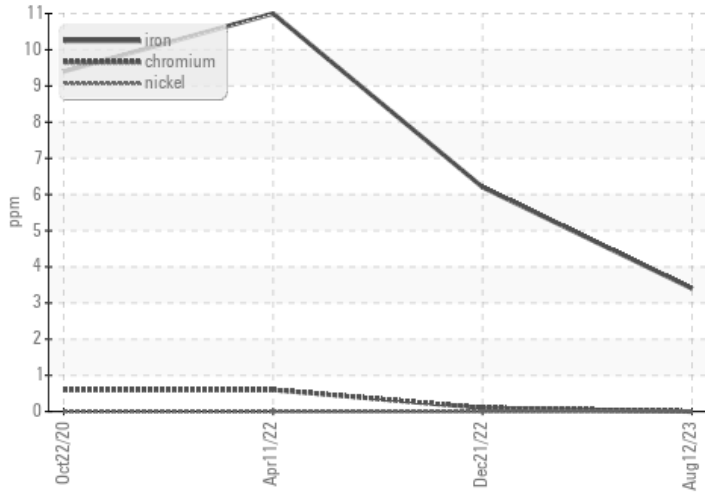


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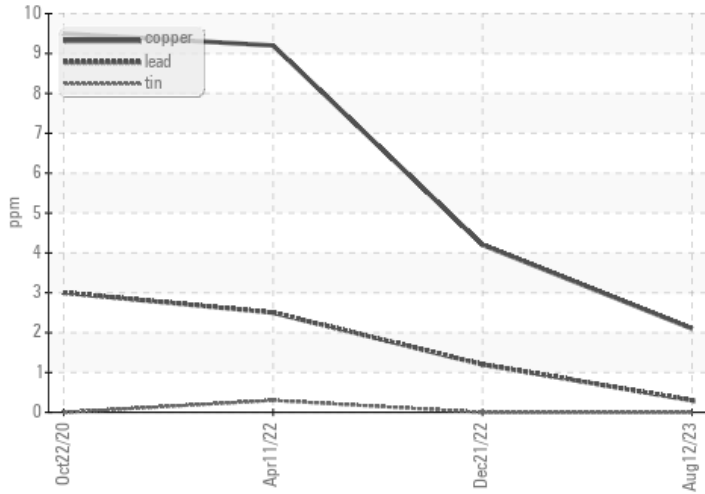


GRAPHS

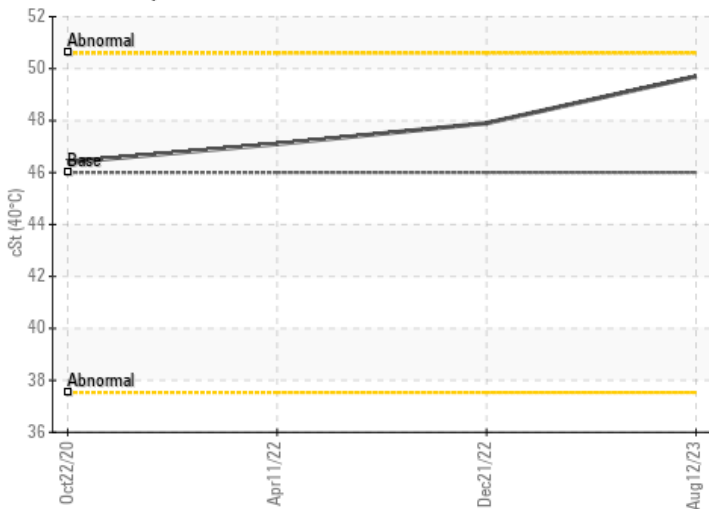
Ferrous Alloys



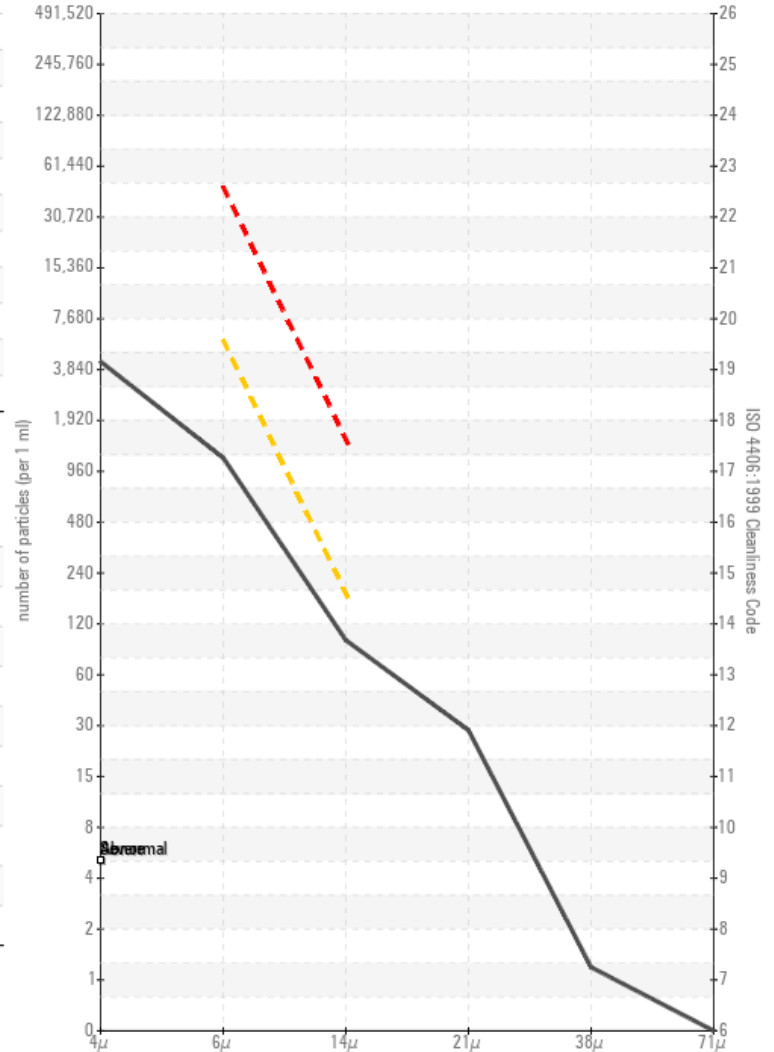
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

