



CONSTRUCTION EQUIPMENT

VOLVO A40G 342 176 - HYDRAULIC SYSTEM



Sample No: VCP437072
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No:



SAMPLE INFORMATION

Sample Number	VCP437072	VCP437070	VCP411997	VCP300033
Sample Date	22 Mar 2024	22 Mar 2024	01 Aug 2023	28 Dec 2020
Machine Hours	8750	8750	7664	5299
Oil Hours	0	0	0	1000
Oil Changed	Changed	Changed	Not Changd	Not Changd
Sample Status	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	43.7	42.5	44.2	43.1
Acid Number (AN)	mg KOH/g	0.32	0.75	0.35	0.341



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		215	9899	---	6934
Particles >6µm		36	280	---	1493
Particles >14µm		4	11	---	171
ISO 4406:1999 (c)		15/12/9	20/15/11	---	20/18/15
Silicon	ppm	4	11	3	3
Sodium	ppm	3	4	3	2
Potassium	ppm	2	<1	2	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	10	10	8	12
Copper	ppm	3	120	3	4
Lead	ppm	2	0	2	3
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	1	1	<1	0
Chromium	ppm	0	0	<1	<1
Molybdenum	ppm	<1	<1	<1	1
Nickel	ppm	0	<1	0	<1
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	1	<1	<1
Vanadium	ppm	0	0	<1	0



ADDITIVES

Calcium	ppm	60	3598	61	112
Magnesium	ppm	7	21	7	16
Zinc	ppm	415	1506	407	452
Phosphorus	ppm	321	1222	334	347
Barium	ppm	0	<1	0	0
Boron	ppm	0	122	0	3

Depot: RIPTAM
Unique No: 11044334
Signed: Wes Davis
Report Date: 23 May 2024

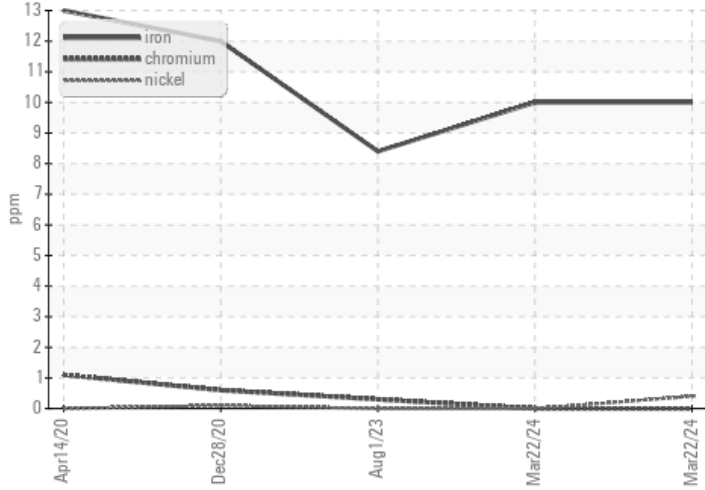


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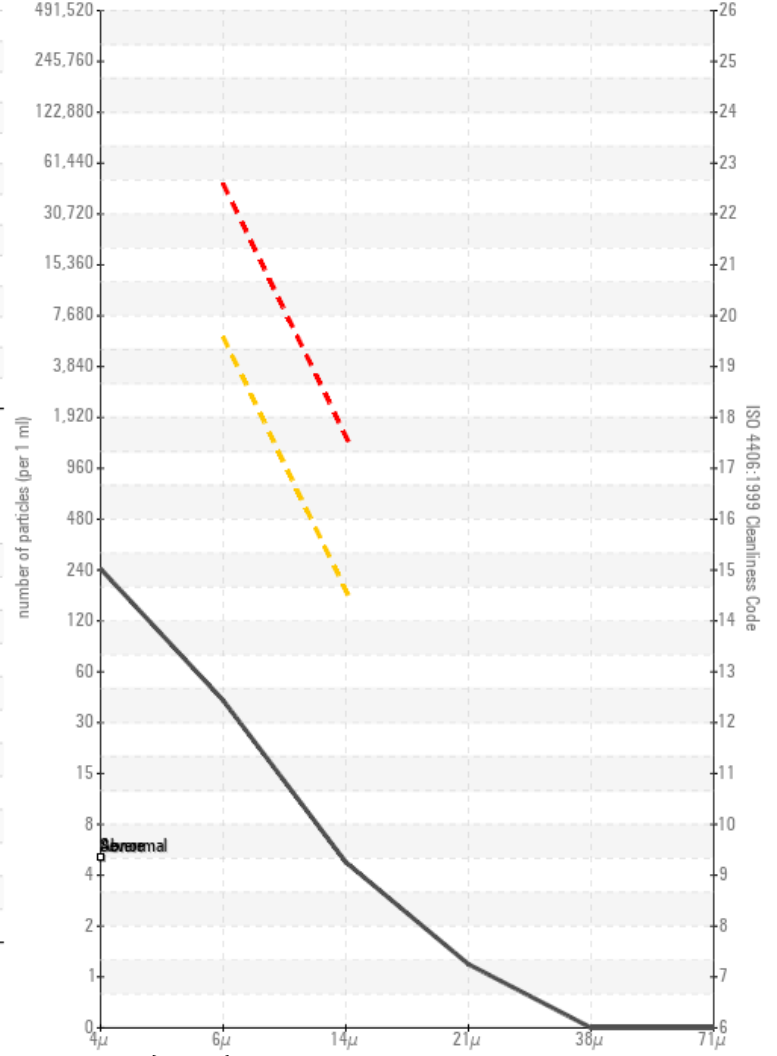


GRAPHS

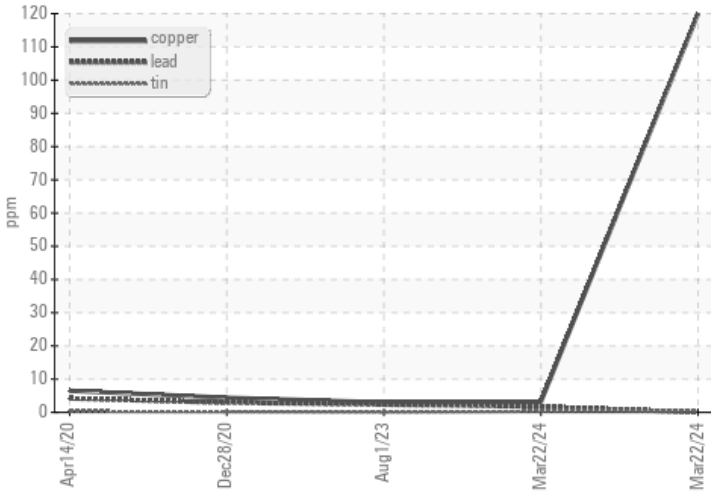
Ferrous Alloys



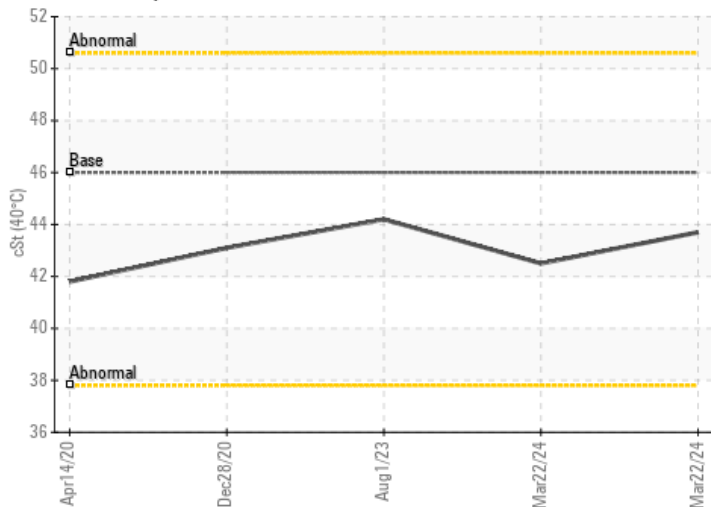
Particle Count



Non-ferrous Metals



Viscosity @ 40°C



Acid Number

