



CONSTRUCTION EQUIPMENT

392951 VOLVO A40G 342561 - HYDRAULIC SYSTEM



Sample No: VCP359367
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 392951



SAMPLE INFORMATION

Sample Number	VCP359367	VCP345718	VCP310895	VCP300211
Sample Date	27 Apr 2022	20 Jan 2022	01 Apr 2021	29 Dec 2020
Machine Hours	6286	5636	4055	3456
Oil Hours	2000	1000	4055	3456
Oil Changed	Not Chngd	Not Chngd	Changed	Not Chngd
Sample Status	ATTENTION	ABNORMAL	ABNORMAL	NORMAL

RIPA AND ASSOCIATES
 10149 FISHER AVENUE
 TAMPA, FL
 US 33619
 Contact: ROBERT TURNER
 rturner@ripatampa.com
 T:
 F:

OIL CONDITION

Visc @ 40°C	cSt	42.0	42.7	40.8	40.9
Acid Number (AN)	mg KOH/g	0.40	0.32	0.411	0.383

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		9073	---	12843	5955
Particles >6µm		2597	---	3666	1500
Particles >14µm		250	---	366	73
ISO 4406:1999 (c)		20/19/15	---	21/19/16	20/18/13
Silicon	ppm	5	6	7	6
Sodium	ppm	0	1	<1	3
Potassium	ppm	1	0	0	0

Diagnosis

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

WEAR METALS

Iron	ppm	13	11	11	10
Copper	ppm	4	5	6	6
Lead	ppm	3	2	5	4
Tin	ppm	<1	<1	<1	0
Aluminum	ppm	2	2	<1	<1
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	1	1	<1	<1
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	0	0
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	96	119	59	76
Magnesium	ppm	6	5	2	2
Zinc	ppm	476	441	476	430
Phosphorus	ppm	354	340	352	333
Barium	ppm	0	0	0	0
Boron	ppm	2	2	2	4

Depot: RIPTAM
Unique No: 9986867
Signed: Doug Bogart
Report Date: 25 May 2022

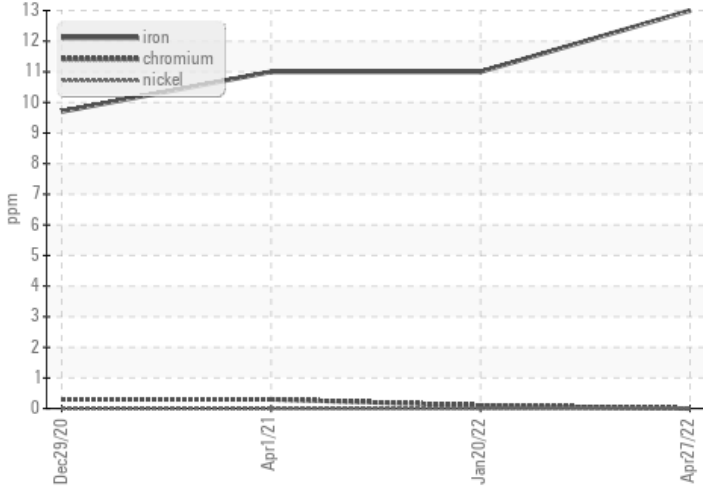


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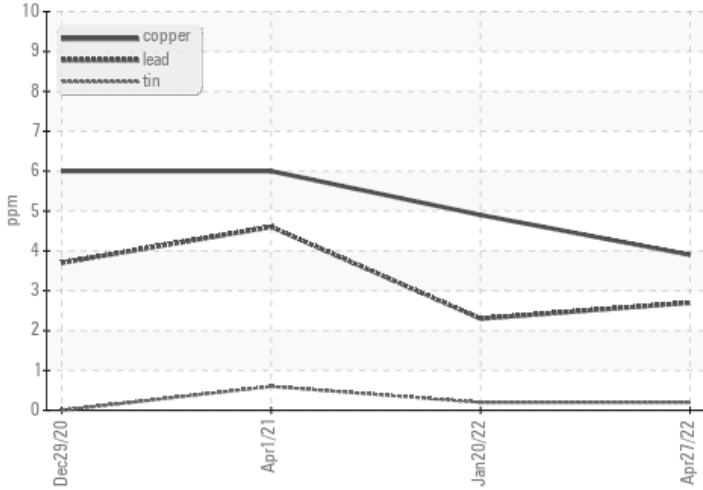


GRAPHS

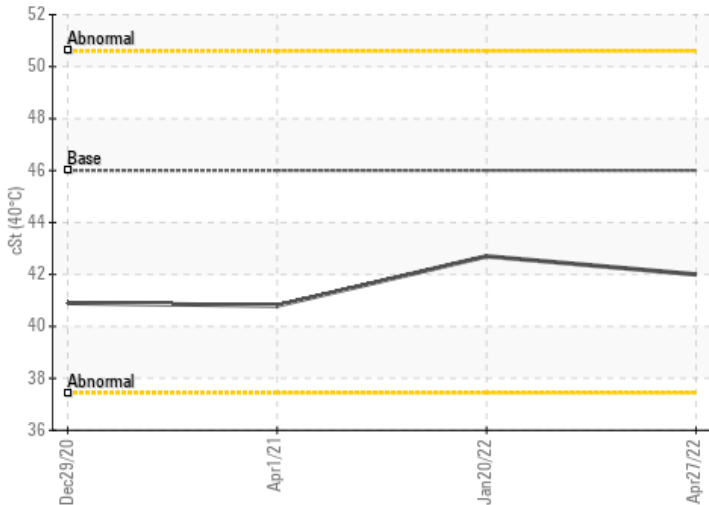
Ferrous Alloys



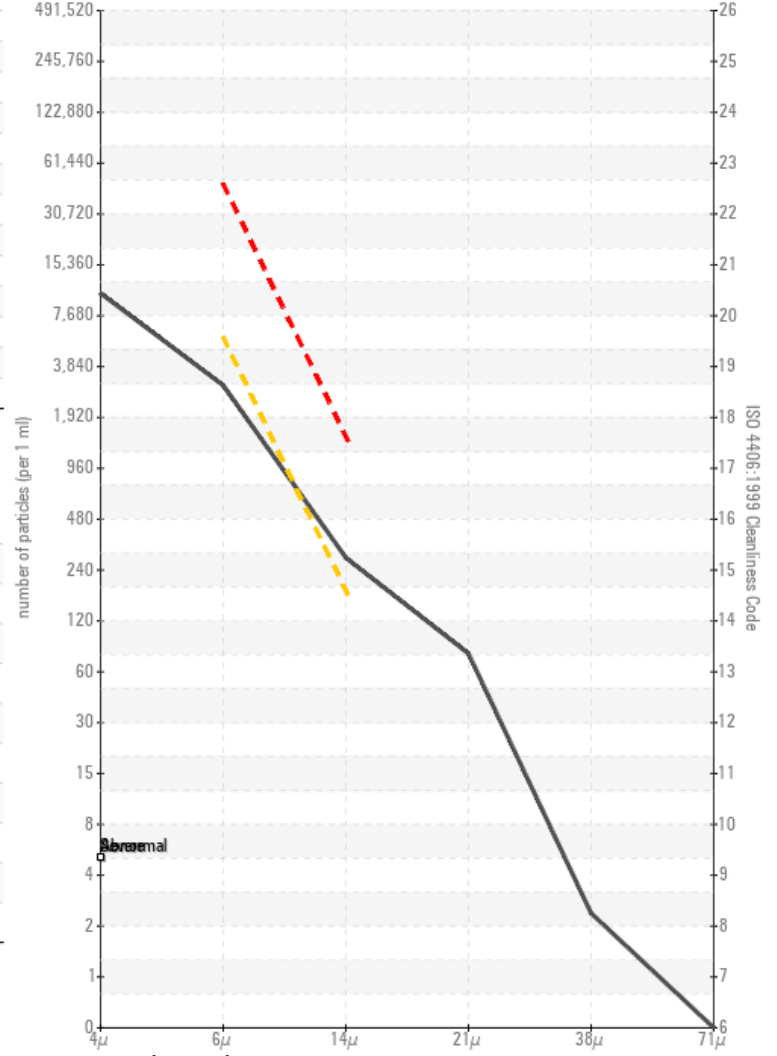
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

