



CONSTRUCTION EQUIPMENT

580547 VOLVO A40G 3525 13 - HYDRAULIC SYSTEM



Sample No: VCP393531
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 580547



SAMPLE INFORMATION

Sample Number	VCP393531	VCP390649	VCP360245	VCP320532
Sample Date	31 Jul 2023	26 Sep 2022	16 Mar 2022	18 Aug 2021
Machine Hours	5166	3603	2597	1430
Oil Hours	0	500	2597	1500
Oil Changed	Changed	Not Changd	Changed	Not Changd
Sample Status	ATTENTION	ATTENTION	NORMAL	ATTENTION

RIPA AND ASSOCIATES

10149 FISHER AVENUE
TAMPA, FL
US 33619
Contact: ROBERT TURNER
rtturner@ripatampa.com
T:
F:

OIL CONDITION

Visc @ 40°C	cSt	43.7	43.7	43.6	44.2
Acid Number (AN)	mg KOH/g	0.37	0.38	0.44	0.346

CONTAMINATION

Particles >4µm		6443	5883	5479	15375
Particles >6µm		1971	1790	803	3547
Particles >14µm		166	190	42	198
ISO 4406:1999 (c)		20/18/15	20/18/15	20/17/13	21/19/15
Silicon	ppm	5	6	5	4
Sodium	ppm	2	2	0	<1
Potassium	ppm	0	0	1	0

Diagnosis

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 light amount of silt (particulates < 14 microns in size) 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	9	9	7	5
Copper	ppm	2	4	3	2
Lead	ppm	2	3	3	2
Tin	ppm	0	0	<1	0
Aluminum	ppm	2	2	1	0
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	0	<1	<1	0
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	0	0
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	60	91	83	52
Magnesium	ppm	0	2	1	0
Zinc	ppm	430	421	407	400
Phosphorus	ppm	342	323	304	304
Barium	ppm	0	0	0	0
Boron	ppm	0	0	1	<1

Depot: RIPTAM
Unique No: 10602068
Signed: Wes Davis
Report Date: 14 Aug 2023

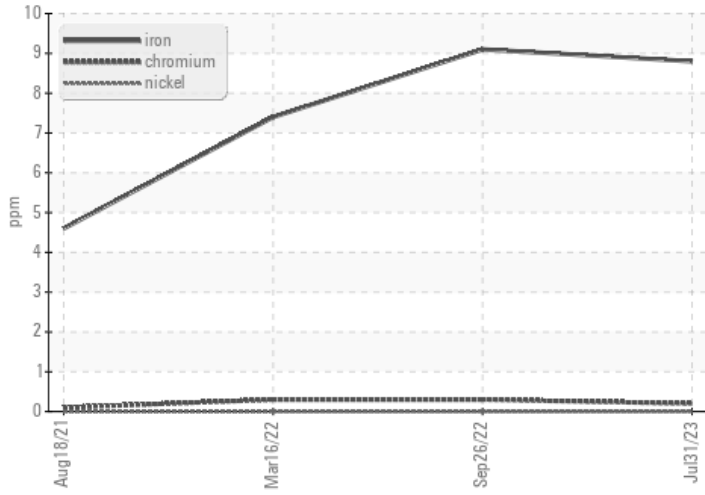


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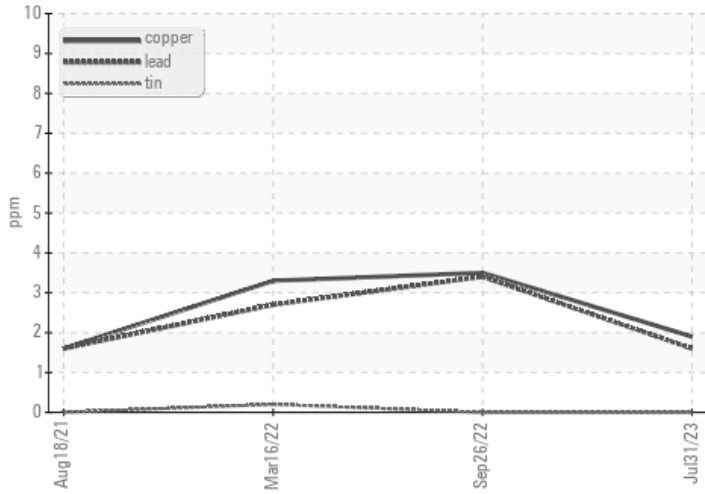


GRAPHS

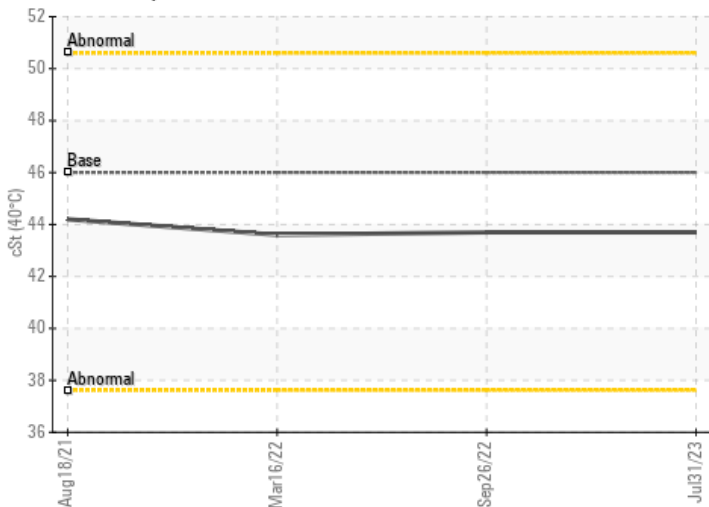
Ferrous Alloys



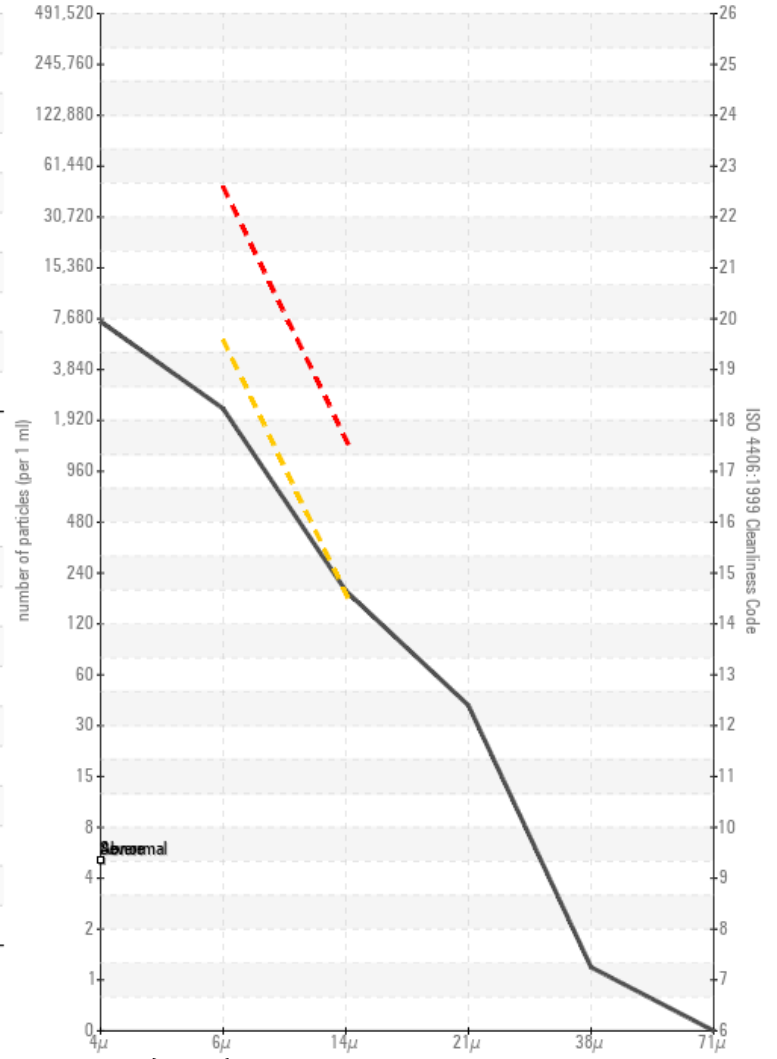
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

