



CONSTRUCTION EQUIPMENT

VOLVO A40G 342176 - HYDRAULIC SYSTEM



Sample No: VCP411997
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No:



SAMPLE INFORMATION

Sample Number	VCP411997	VCP300033	VCP271172	---
Sample Date	01 Aug 2023	28 Dec 2020	14 Apr 2020	---
Machine Hours	7664	5299	4225	---
Oil Hours	0	1000	4225	---
Oil Changed	Not Chngd	Not Chngd	Changed	---
Sample Status	ABNORMAL	ATTENTION	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	44.2	43.1	41.8	---
Acid Number (AN)	mg KOH/g	0.35	0.341	0.478	---



CONTAMINATION

Particles >4µm	---	6934	4821	---	
Particles >6µm	---	1493	626	---	
Particles >14µm	---	▲ 171	20	---	
ISO 4406:1999 (c)	---	20/18/15	19/16/11	---	
Silicon	ppm	3	3	5	---
Sodium	ppm	3	2	2	---
Potassium	ppm	2	0	<1	---

Diagnosis

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample. All component wear rates are normal. Moderate concentration of visible dirt/debris 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	8	12	13	---
Copper	ppm	3	4	6	---
Lead	ppm	2	3	4	---
Tin	ppm	<1	<1	<1	---
Aluminum	ppm	<1	0	<1	---
Chromium	ppm	<1	<1	1	---
Molybdenum	ppm	<1	1	<1	---
Nickel	ppm	0	<1	0	---
Titanium	ppm	<1	<1	<1	---
Silver	ppm	0	0	<1	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	<1	0	0	---



ADDITIVES

Calcium	ppm	61	112	69	---
Magnesium	ppm	7	16	2	---
Zinc	ppm	407	452	435	---
Phosphorus	ppm	334	347	328	---
Barium	ppm	0	0	0	---
Boron	ppm	0	3	<1	---

Depot: RIPTAM
Unique No: 10607132
Signed: Jonathan Hester
Report Date: 21 Aug 2023

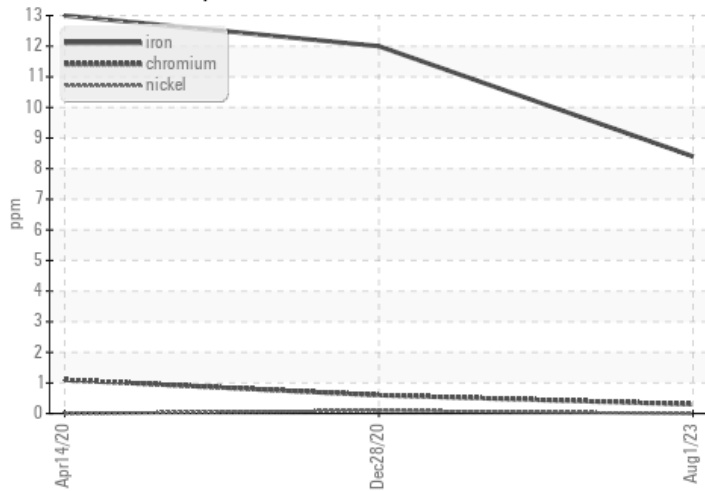


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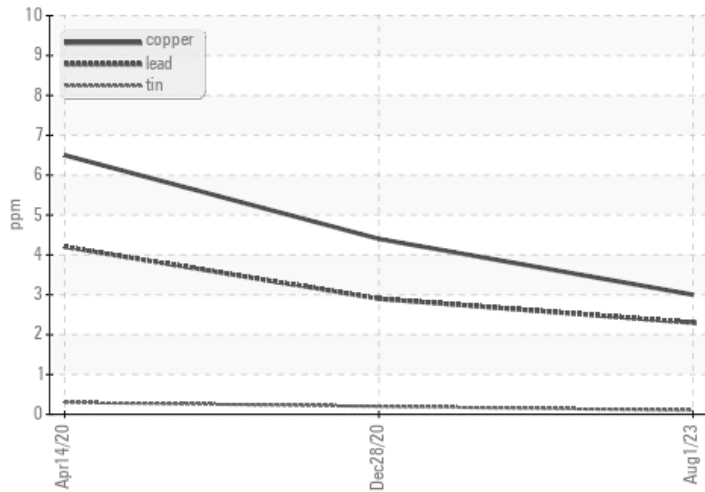


GRAPHS

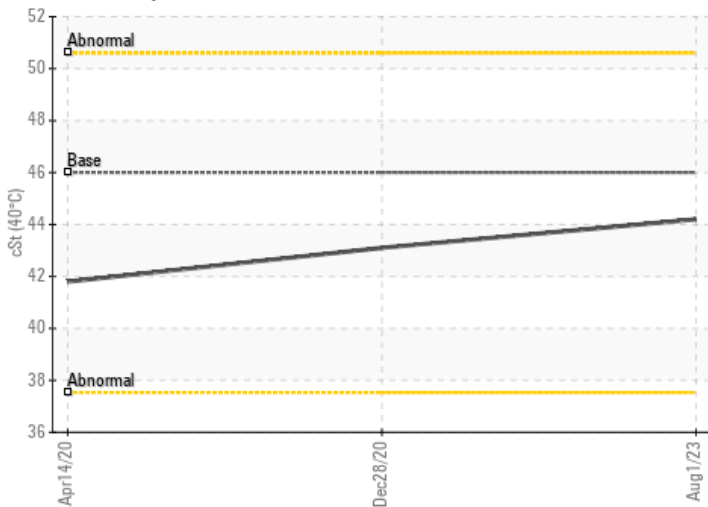
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Acid Number

