



CONSTRUCTION EQUIPMENT

VOLVO A40G 352412 - HYDRAULIC SYSTEM



Sample No: VCP434477
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No:



SAMPLE INFORMATION

Sample Number	VCP434477	VCP287516	VCP296180	---
Sample Date	01 Nov 2023	01 Mar 2021	07 Dec 2020	---
Machine Hours	4381	1361	1001	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Not Changd	Not Changd	---
Sample Status	ABNORMAL	NORMAL	ABNORMAL	---

ALTA EQUIPMENT COMPANY
 5151 DR MARTIN LUTHER KING BLVD
 FORT MYERS, FL
 US 33905
 Contact: TODD LARK
 tlark@altaequipfl.com
 T:
 F: (239)481-3302



OIL CONDITION

Visc @ 40°C	cSt	41.5	41.9	41.3	---
Acid Number (AN)	mg KOH/g	0.49	0.449	0.394	---



CONTAMINATION

Particles >4µm		5088	6212	---	---
Particles >6µm		256	1027	---	---
Particles >14µm		10	45	---	---
ISO 4406:1999 (c)		20/15/10	20/17/13	---	---
Silicon	ppm	▲ 28	12	7	---
Sodium	ppm	0	0	0	---
Potassium	ppm	2	0	<1	---

Diagnosis

We advise that you check all areas where dirt can enter the system. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



WEAR METALS

Iron	ppm	17	7	4	---
Copper	ppm	6	3	3	---
Lead	ppm	4	2	2	---
Tin	ppm	0	<1	<1	---
Aluminum	ppm	▲ 20	5	0	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	<1	0	0	---
Nickel	ppm	0	0	0	---
Titanium	ppm	<1	<1	<1	---
Silver	ppm	0	<1	<1	---
Manganese	ppm	0	<1	0	---
Vanadium	ppm	<1	0	0	---



ADDITIVES

Calcium	ppm	75	51	46	---
Magnesium	ppm	4	<1	1	---
Zinc	ppm	425	433	446	---
Phosphorus	ppm	318	338	316	---
Barium	ppm	0	0	0	---
Boron	ppm	0	<1	0	---

Depot: VOLVO0090
Unique No: 10737252
Signed: Don Baldrige
Report Date: 13 Nov 2023

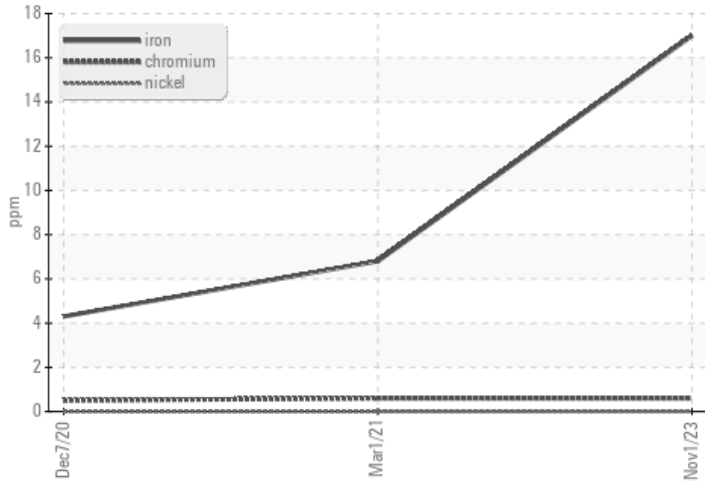


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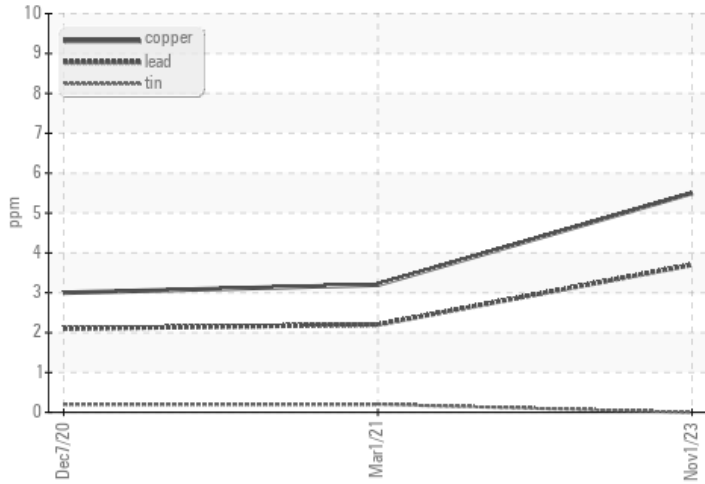


GRAPHS

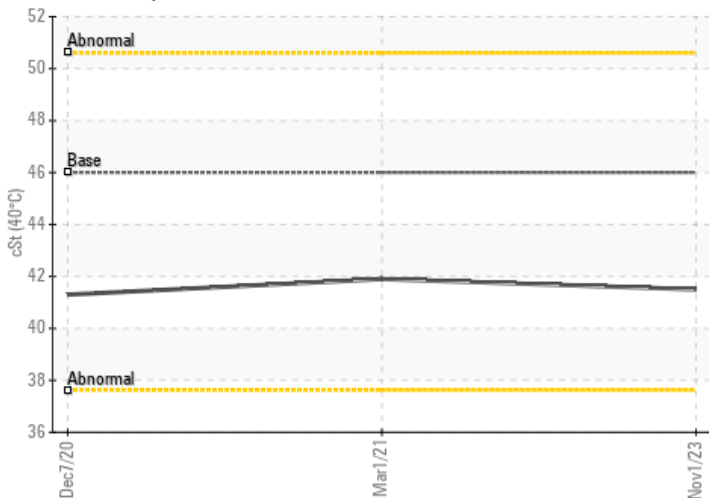
Ferrous Alloys



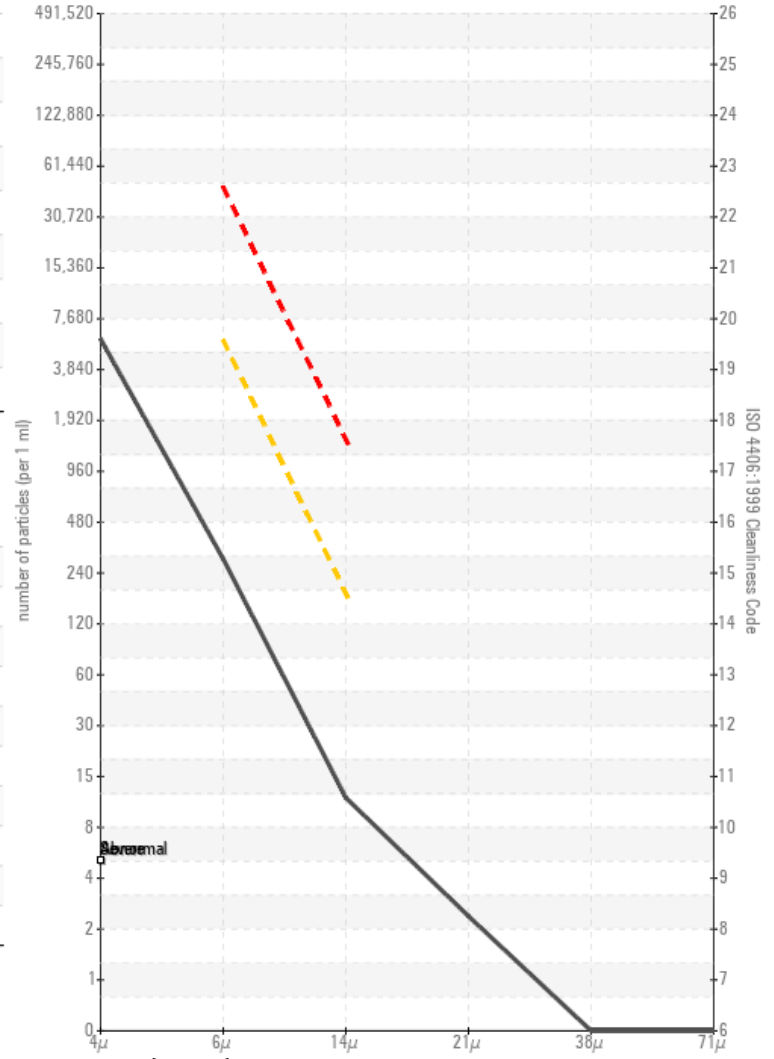
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

