CONSTRUCTION EQUIPMENT

580674 APTIM VOLVO A35G 340227 - HYDRAULIC SYSTEM

Sample No: VCP417070
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 580674 APTIM

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SAMPLE INFORMATION

Sample Number		**VCP417070**	VCP395752	---	---
Sample Date		**27 Jul 2023**	01 Feb 2023	---	---
Machine Hours		**7611**	6647	---	---
Oil Hours		**4000**	2000	---	---
Oil Changed		**Changed**	Not Changd	---	---
Sample Status		**ABNORMAL**	NORMAL	---	---

OIL CONDITION

Visc @ 40°C	cSt	**44.4**	39.6	---	---
Acid Number (AN)	mg KOH/g	**1.00**	0.49	---	---

CONTAMINATION

Particles >4µm		**16127**	2439	---	---
Particles >6µm		**1130**	372	---	---
Particles >14µm		**28**	12	---	---
ISO 4406:1999 (c)		**21/17/12**	18/16/11	---	---
Silicon	ppm	**9**	4	---	---
Sodium	ppm	**<1**	2	---	---
Potassium	ppm	**2**	<1	---	---

WEAR METALS

Iron	ppm	**27**	18	---	---
Copper	ppm	▲ **263**	12	---	---
Lead	ppm	**2**	5	---	---
Tin	ppm	**0**	<1	---	---
Aluminum	ppm	**1**	1	---	---
Chromium	ppm	**<1**	<1	---	---
Molybdenum	ppm	**3**	<1	---	---
Nickel	ppm	**3**	<1	---	---
Titanium	ppm	**0**	0	---	---
Silver	ppm	**0**	0	---	---
Manganese	ppm	**<1**	<1	---	---
Vanadium	ppm	**0**	0	---	---

ADDITIVES

Calcium	ppm	**3055**	300	---	---
Magnesium	ppm	**32**	6	---	---
Zinc	ppm	**1378**	473	---	---
Phosphorus	ppm	**1101**	371	---	---
Barium	ppm	**0**	0	---	---
Boron	ppm	**76**	0	---	---

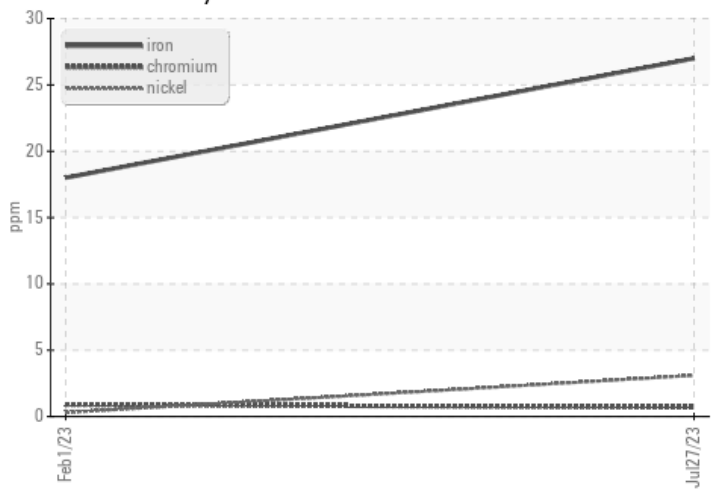
Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.The copper level is abnormal. All other component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

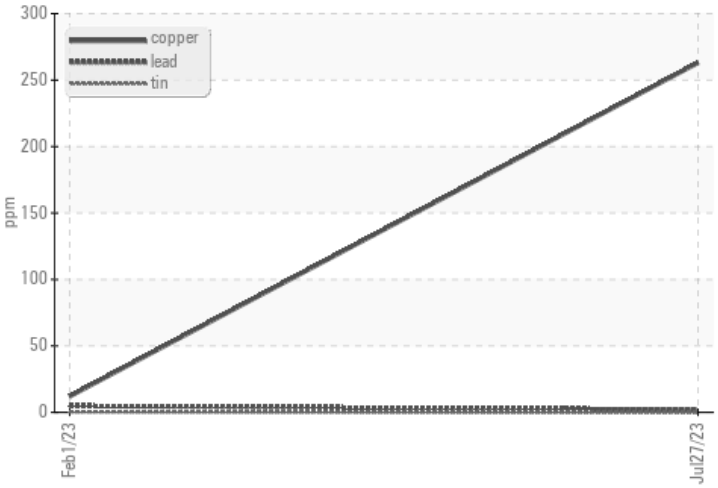
Depot: VOLVO0093
Unique No: 10589291
Signed: Don Baldridge
Report Date: 08 Aug 2023

GRAPHS

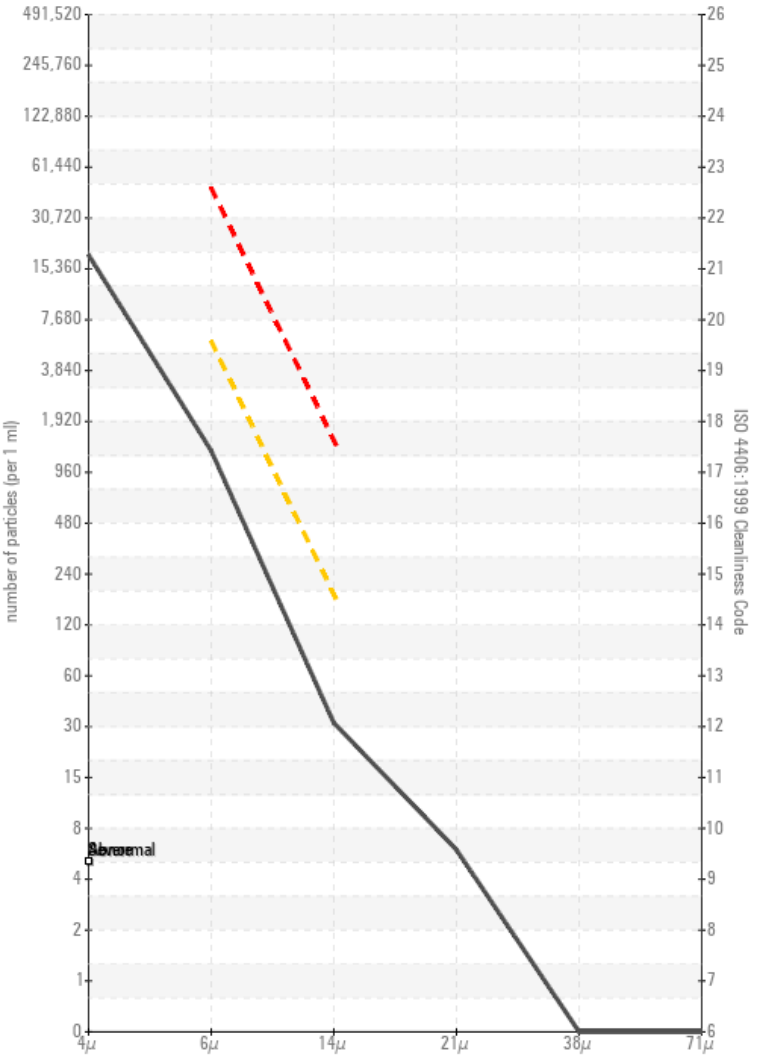
Ferrous Alloys

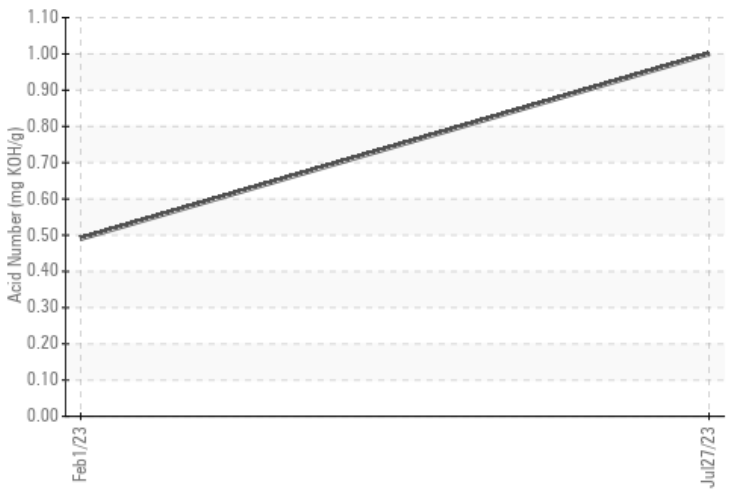


Non-ferrous Metals



Particle Count



Viscosity @ 40°C

Acid Number